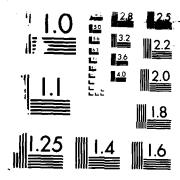
DFYLR/FAA (DEUTSCHE FORSCHUNGS-UND VERSUCHSANSTALT FUER LUFT UND RAUMFAHR.. (U) DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMF.. N N DOBRZYNSKI ET AL. 1986 F/G 20/1 AD-A174 988 1/6 UNCLASSIFIED NL

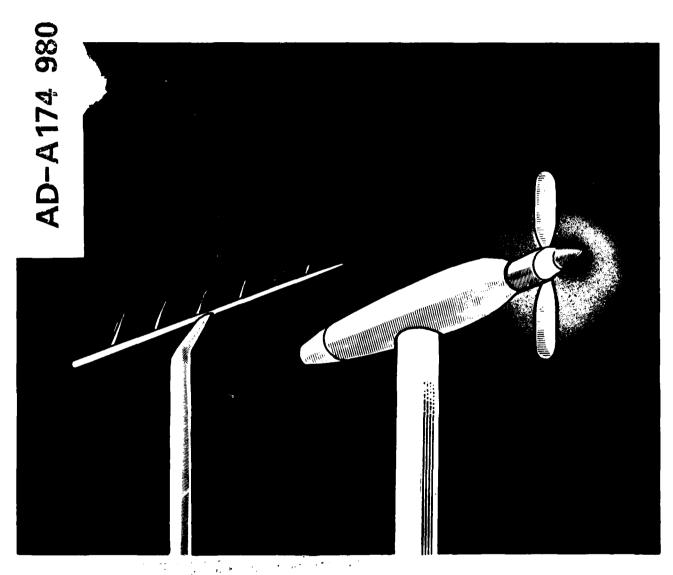


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DFVLR/FAA Propeller Noise Tests in the German-Dutch Wind Tunnel DNW

Appendix IV: The Effect of Propeller Disc-plane Attitude (Propeller : Thickness 6.4%, Round Tip-shape)

DFVLR-IB 129-86/3 FAA Report No. AEE 86-3



Jointly conducted by:



U.S. Department of Transportation

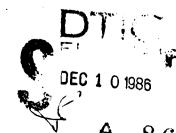
Federal Aviation Administration

Office of Environment and Energy



Deutsche Forschungs-und Versuchsanstalt für Luft-und Raumfahrt e.V.

Inst für Entwurfsaerodynamik Abteilung Technische Akustik



by Werner M. Dobrzynski Hanno H. Heller John O. Powers James E Densmore

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DATA REPORT ON PROPELLER NOISE TESTS

IN THE GERMAN-DUTCH WIND TUNNEL

APPENDIX IV

TEST RESULTS ON THE EFFECT
OF PROPELLER DISC-PLANE ATTITUDE
(PROPELLER 1: THICKNESS 6.4%, ROUND TIP-SHAPE)

bу

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and
J. Powers**, J. Densmore**

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- ** FAA, 800 Independence Ave., S.W., Washington, D.C. 20591, USA

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- 2. Microphone Array
- 3. Environmental and Operational Test-data
- 4. Overall Noise Levels from Direct Analog Analysis
- 5. Acoustic Pressure-time Histories and Narrow-band Spectra
- 6. Propeller Rotational Harmonic Noise- and Overall Noise Levels
- 7. Comments on Data Interpretation

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1. Introduction

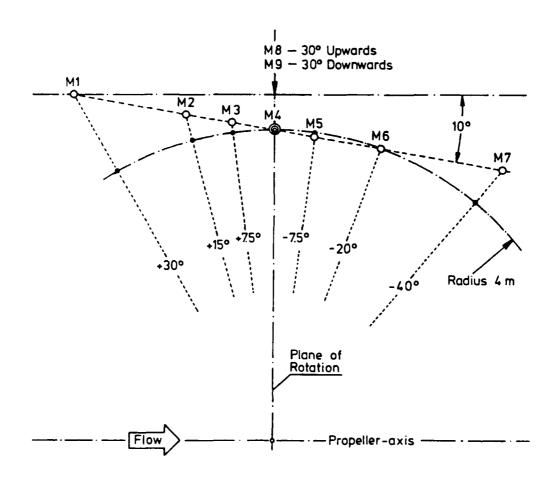
Within a joint effort (and supported by the German Ministry of Research and Technology/BMFT) between the Deutsche Forschungs-und Versuchsanstalt für Luft- und Raumfahrt (DFVLR), the US Federal Aviation Administration (FAA), and the German Ministry of Transportation (BMV), propeller noise tests were conducted in the "Deutsch-Niederländischer Windkanal/German Dutch Wind Tunnel (DNW)" to develop high quality propeller-acoustics data, which could be used by manufacturers for acoustic design purposes, and by researchers to validate established or newly developed theoretical noise prediction methods.

Specifically, the program addressed propeller Mach-number and disc-plane attitude effects as related to noise certification test and evaluation procedures. Changes in Mach-number, as they affect acoustic data adjustments, were explored through independent variation of tunnel flow velocity, propeller rotational speed and ambient air temperature. The tests on the effect of in-flow angle on propeller noise also incorporated the influence of a typical engine nacelle on the flow field and, hence, on the propeller noise.

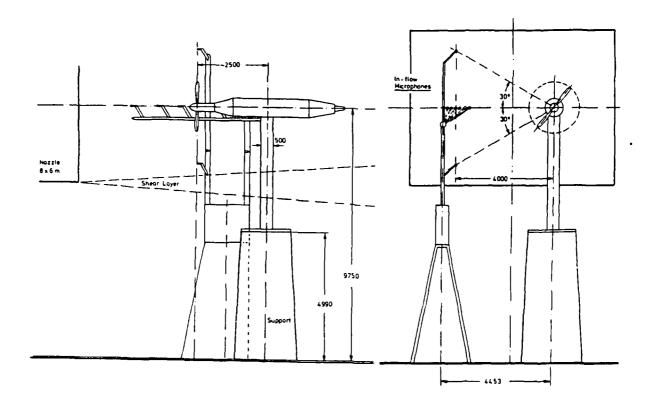
In this Appendix the test results on the effect of propeller disc-plane attitude (Propeller 1: Thickness 6.4%, round tip-shape) are documented in terms of pressure-time histories, narrow-band spectra and unweighted as well as A-weighted overall sound pressure levels, together with supplementary information nescessary for further data interpretation. A detailed description of data-acquisition and -reduction techniques is provided by the "Executive Report" to this Appendix.

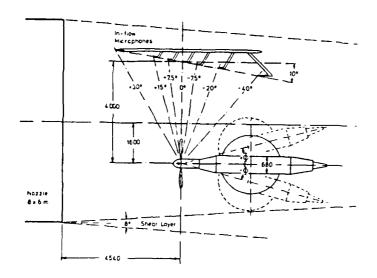
2. Microphone Array

A total of seven in-flow microphones were positioned in the horizontal plane at different streamwise locations corresponding to particular geometric radiation angles from the propeller center. Two additional microphones were positioned in the plane of rotation (4 m lateral distance to the propeller axis) at angles of \pm 30 deg respectively above and below the horizontal plane with reference to the propeller center.



In-flow Microphone Positioning





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Schematic Representation of Test-rig Arrangement within the Core-flow Regime of the DNW $8 \times 6 \text{m}^2$ Open Test Section

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3. Environmental and Operational Test-data

In the following table(s) the data-point matrix is documented. These table(s) summarise the as-measured data and characteristic propeller operational parameters as calculated from measured data.

HEL. MACHN.	1	0.6751 0.7664 0.8735	0.5830 0.6735 0.7755	0.6734 0.7645 0.8727	0.5845 0.6751 0.7771	0.6729 0.7639 0.8758	0.5838 0.6754 0.7775	0.6746 0.7655 0.8740	0.5832 0.6739 0.7756	0.6764 0.7677 0.8745	0.5847 0.6755 0.7773
THRUST COEF.		0.0598 0.0794 0.0354	0.0684 0.0937 0.0766	0.0580 0.0782 0.0342	0.0689 0.0935 0.0752	0.0609 0.0801 0.0364	0.0675 0.0930 0.0763	0.0586 0.0785 0.0343	0.0678 0.0927 0.0754	0.0605 0.0796 0.0366	0.0696 0.0946 0.0777
POWER COEF.	,	0.0538 0.0651 0.0393	0.0719 0.0879 0.0793	0.0529 0.0638 0.0383	0.0723 0.0883 0.0788	0.0541 0.0652 0.0404	0.0707 0.0871 0.0777	0.0544 0.0653 0.0398	0.0709 0.0869 0.0780	0.0541 0.0654 0.0406	0.0717 0.0877 0.0790
ATTACK ANGLE	DEG	2.847 4.793 0.234	4.081 6.710 4.471	2.785 4.793 0.257	4.010 6.647 4.364	2.910 4.848 0.186	3.975 6.710 4.338	2.785 4.793 0.186	4.152 6.616 4.338	2.847 4.737 0.163	4.010 6.585 4.364
ADV.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.2300 0.2025 0.2680	0.2673 0.2292 0.2616	0.2309 0.2025 0.2677	0.2684 0.2300 0.2632	0.2292 0.2017 0.2687	0.2689 0.2292 0.2636	0.2309 0.2025 0.2687	0.2663 0.2305 0.2636	0.2300 0.2033 0.2691	0.2684 0.2309 0.2632
FLOW DENS.	KG/CM	1.214	1.210	1.207	1.216	1.194	1.212	1.211	1.211	1.218	1.217
FLOW PRES.	PASCAL	100171. 100172. 100171.	100150. 100150. 100160.	100160. 100161. 100201.	100131. 100090. 100155.	99262. 99090. 98625.	100082. 100069. 100125.	100133. 100101. 100152.	100058. 100060. 100063.	100132. 100132. 100162.	100102. 100101. 100146.
FLOW TEMP.	KELVIN	286.9 287.5 288.4	287.7 288.2 288.2	288.5 288.9 288.9	286.3 286.9 287.2	288.7 289.3 287.0	287.1 286.6 287.0	287.5 288.2 288.2	287.3 288.0 288.4	285.8 286.6 287.9	286.1 286.7 287.1
ATTITUDE ANGLE	DEG	-7.4 -7.4 -7.4	-7.4 -7.4 -7.4	 	 	000	000	33.6 3.6 6.6	33.6	7.3	7.3
THRUST	NEWTON	151 262 147	1270. 2363. 2525.	1461. 2569. 1422.	1285. 2368. 2486.	1520. 2599. 1500.	1255. 2359. 2525.	1481. 2584. 1432.	1260. 2339. 2481.	1540. 2638. 1530.	1299. 2398. 2569.
POWER	¥.	97.0 174.7 149.9	81.4 157.7 212.4	94.8 170.4 145.9	82.2 159.0 211.9	95.9 171.9 152.1	80.1 157.0 208.9	97.9 174.9 151.6	80.3 155.9 208.6	97.9 176.2 154.9	81.6 158.1 212.4
FLOW VEL.	M/S	51.4 51.7 77.0	51.2 51.2 66.8	51.6 51.7 76.9	51.4 51.4 67.2	51.2 51.5 77.2	51.5 51.2 67.3	51.6 51.7 77.2	51.0 51.5 67.3	51.4 51.9 77.3	51.4 51.6 67.2
ROT. SPEED	RPM	2100. 2400. 2700.	1800. 2100. 2400.	2100. 2400. 2700.	1800. 2100. 2400.	2100. 2400. 2700.	1800. 2100. 2400.	2100. 2400. 2700.	1800. 2100. 2400.	2100. 2400. 2700.	1800. 2100. 2400.
PITCH ANGLE	DEG		23.7 23.7 23.7	19.9	23.7 23.7 23.7	19.9	23.7 23.7 23.7	19.9	23.7	19.9 19.9 19.9	23.7 23.7 23.7
DATA	 	-2	GN-4 GN-5 GN-6	LN-1 LN-2 LN-3	LN-4 LN-5 LN-5	BN-4 BN-5 BN-6	CN-3 CN-4 CN-5	FR-1	FN-5 FN-5 FN-5	EN-1	EN-4 EN-5 EN-6

4. Overall Noise Levels from Direct Analog Analysis

The following tables provide unweighted (OASPL) and A-weighted (L_A) overall sound pressure levels from quick-look analog data-analysis of measured data for all data-points and microphone positions respectively. Level-numbers which are identified with an asterix are "disturbed data" and should not be interpreted.

ATTITUDE EFFECT, ROUND-TIP PROP. (1)

DNW PROPELLER NOISE TEST

Run	Data					In-Flor	v Noise	Leve1			
No.	Point		M1	M2	м3	M4	M5	M6	M 7	м8	м9
1.0.	101110		***	 	11.5	114	1117	T. T	117	110	1
151	GN-1	L,-dB(A)	88.4	91.6	94.0	94.5	96.0	94.7	95.4*	99.2	96.7
		OASPL-dB	100.6	106.3*		108.1	110.2	108.9	104.7	113.2*	109.4
152	GN-2	$L_A - dB(A)$	93.6	99.3	102.5	104.3	106.0	104.7	98.2*	104.8	103.5
1,72	GN-2	OASPL-dB	106.5	110.6*	1	113.9	116.2	116.8	114.3*		113.6
153	GN-3	L,-dB(A)	102.7	114.3*		116.1	119.0	112.8	119.1*		115.8
193	GN-3	OASPL-dB	114.1*	124.5*		121.8*	126.9*	120.0	133.6*	126.4	126.0
		OASPL-UD	114.1	124.5	120.5	121.0	120.9	120.0	133.0	120.4	120.0
148	GN-4	$L_A-dB(A)$	87.8	88.4	89.0	90.7	94.0	93.0*	93.6*	98.5*	94.5
140	GN-4	OASPL-dB	99.1		1	1	1	106.2	102.4	112.9*	
1.60	CN7 E			104.9*		104.3	107.5		94.2	100.4*	
149	GN-5	LdB(A)	89.5	93.8	95.7	96.8	97.9	97.5			
150	CN 6	OASPL-dB	102.1	110.3*		110.8	112.4	112.1	110.2	114.2*	
150	GN-6	L _A -dB(A)	96.4	101.6	103.5	105.1	107.5	105.6		107.7*	
		OASPL-dB	109.5	114.7*	113.1	114.8	117.9*	118.1	121.1	119.7*	118.9
154	LN-1	L,-dB(A)	88.9	93.4	04.0	05.2	97.1	94.7	91.6*	99.8*	96.7
154	LW-1	OASPL-dB	101.9	[94.0	95.3	110.7	ľ			110.3
166	7 37 2			107.3*		108.9	1	109.6	106.7	113.4*	
155	LN-2	L _A -dB(A) OASPL-dB	95.6	101.5	104.4	105.6	106.8	105.0	98.5*	116.3*	104.4
156			107.6	112.0	113.7	115.4	117.5	117.7	113.7		
156	LN-3	L _A -dB(A) OASPL-dB	105.2	116.2*		117.9	119.8	112.8	120.3*		116.9
	ĺ	OASPL-dB	115.2	125.9*	121.8	123.2*	127.5	120.9	134.0*	120.87	126.3*
157	LN-4	L,-dB(A)	87.8	88.8	89.7	90.9	93.4	92.2*	92.9*	99.8*	95.2
137	LN~4	OASPL-dB	100.8*	104.6*	104.3	105.9	108.5	107.5		113.5*	109.7
158	LN-5		90.4	94.7	97.2	98.0	99.1	98.1		101.6*	98.7
100	באם ו	L _A -dB(A) OASPL-dB	104.5	110.2*			113.7	113.8	112.0*		112.2
159	LN-6		98.0	103.5*	-	112.1	109.1	107.5	107.0*		106.8
1 29	LN-0	LdB(A) OASPL-dB	1	116.2*		107.2			120.2*		120.0
		OASPL-db	110.8	110.2	114.8	116.4	119.4	119.5	120.2	120.3	120.0
54	BN-4	L,-dB(A)	90.2	93.5	94.8	06.0	96.5		07.0*	101.0*	97.2
J4	DN-4	OASPL-dB	103.6	109.3*		96.0 110.1	111.8		111.9*		111.3
53	BN-5	LdB(A)	97.3	103.4	106.3	106.5	107.8		101.9*		106.1
))	כ-אם	OASPL-dB	108.6	113.9*		116.6	118.6		117.1*		116.6
51	DN (111.1*	119.3*		119.4	118.4		114.5*		118.9
31	BN-6	L _A -dB(A) OASPL-dB	120.1*		119.3				138.0*		126.6
		UASPL-dB	120.1	127.6*	123.3	123.9	123.5		130.0	123.2	120.0
101	CN 2	1 AD/A\	00 0	01 1+	01 6	01.2	02.6	01.5	02 24	100.0*	94.7
101	CN-3	L _A -dR(A) OASPL-dB	88.9	91.1* 110.3*		91.2	92.6	91.5		114.5*	
100	CN 4		102.1			107.4	109.0		95.1	101.3*	
100	CN-4	L _A -dB(A) OASPL-dB	91.7 106.4	96.3	97.8	99.1	99.5	98.1 114.6	113.0	115.9*	l .
0.0	CN			111.6*		113.6	114.9		98.3*		108.0
98	CN-5	L _A -dB(A)	102.1*	105.6	107.9	109.1	109.8	106.7	98.3*	109.4	120.3
		OASPL-dB	112.4	117.1*	110./	119.0*	120.5	119.8	111.14	120.9	120.3
427.0	1/DII	veluee		L			L				

*Higher "R" values

Linear- and A-weighted Overall Noise Levels from Analog Data-analysis

ATTITUDE EFFECT, ROUND-TIP PROP. (2)

DNW PROPELLER NOISE TEST

Runi	Data		1			In-Flo	w Noise	Level			
No.	Point		M1	M2	M3_	M4	M5	M6	M7	M8	M9
							Ţ	{	1		
166	FN-1	$L_{\Delta}-dB(A)$	90.8	95.0	96.5	96.8	97.9	96.1	93.5	101.2*	97.9
İ		OASPL-dB	104.8	110.7*	1	111.8	113.2	112.8	4	114.8*	111.7
167	FN-2	$L_{A}-dB(A)$	100.4	105.8	108.0	108.5	109.0	105.6		108.2	107.5
l		oaspl-db	110.8	115.4	116.9	118.6	120.2	119.6	114.9	118.5	117.5
168	FN-3	$L_{\Delta} - dB(A)$	112.9	122.0	122.1	121.3	121.0	113.9	120.6*		119.5
ı		OASPL-db	119.1	129.2*	125.2	125.3	128.7*	122.9	133.0*	127.5	127.4
169	FN-4	$L_A-dB(A)$	88.3	90.4*	90.5	92.3	94.1	93.4	93.2*	99.3*	95.4
-02		OASPL-dB	103.5	107.0*	107.3	108.7	110.7	109.7	106.8	114.9*	110.7
170	FN-5	$L_A-dB(A)$	92.9	97.0	99.2*		101.0	99.3	96.5*	102.1*	100.2
		OASPL-dB	107.5	112.5	113.5	114.9	116.6	116.5	114.1	116.7*	1
171	FN-6	$L_A-dB(A)$	102.0	108.1	110.1	110.5	111.4	108.0	105.4*		109.3
		OASPL-dB	113.0	118.1	118.8	120.3	122.4	121.7	119.8*	121.2	121.2
163	EN-1	$L_A - dB(A)$	92.0	97.0	97.8	98.6	99.0	96.8		101.2*	99.3
		OASPL-dB	106.5	111.6*	112.1	113.4	114.7	114.1	111.0*	115.1*	113.0
164	EN-2	$L_A - DB(A)$	103.1	108.2	110.0	109.9	110.0	106.1	98.7	108.9	108.4
		OASPL-dB	112.5	116.8	118.9	120.2	121.5	120.6	115.3	119.5	118.7
165	EN-3	$L_A - dB(A)$	117.3	125.2	124.4	122.8	122.2	114.6	119.0	121.2	121.3
		OASPL-dB	121.7	130.7*	127.2	126.6	129.5	123.9	133.5*	127.8	127.8
160	EN-4	$L_A-dB(A)$	88.9	91.2	91.8	93.4	94.1	93.7	92.7*	100.1*	96.0
		OASPL-dB	105.0	108.4*	109.3	110.6	112.2	111.5	108.5	115.1	111.8
161	EN-5	$L_A-dB(A)$	93.9	99.0	100.9	101.7	102.2	99.8	96.1*		101.2
		OASPL-dB	108.9	113.9	115.3	116.7	118.0	117.7	115.1	117.1	115.4
162	EN-6	$L_A-dB(A)$	105.2	110.7	112.4	112.1	112.8	109.1	104.1*		111.0
		OASPL-dB	114.9	120.0	121.0	122.1	123.9	123.1	120.9#	122.3	122.4
		1							<u></u>		

*Higher "R" values

Linear- and A-weighted Overall Noise Levels from Analog Data-analysis

5. Acoustic Pressure-time Histories and Narrow-band Spectra

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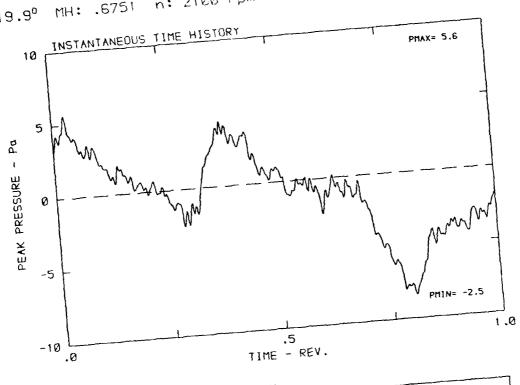
Acoustic data as presented in this section have been derived from a computer analysis of digitized analog tape-readings. For each data-point and microphone position respectively the data were processed and are presented in two different ways:

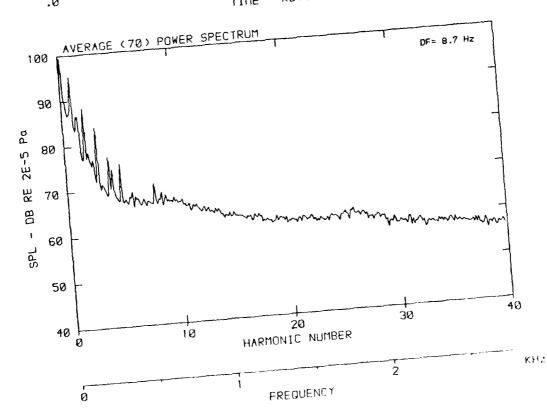
- a) A single instantaneous pressure-time history is presented and labeled "Instantaneous Time History" together with a power spectrum which had been calculated as an energy average of individual power spectra corresponding to a certain number of instantaneous pressure-time histories. This spectrum is labeled "Average (xx) Power Spectrum". The "xx" in the lable denotes the number of time histories averaged in that particular spectrum.
- b) A certain number of instantaneous pressure-time histories is averaged in the time-domain and the resulting pressure averaged time-history is labeled "Average (xx) Time History". The "xx" in the label denotes the number of averaged instantaneous time-histories.

The value of ΔP in the brackets behind this label denotes the maximum peak-to-peak pressure amplitude difference in %, when referenced to the minimum peak-to-peak pressure amplitude difference as detected in the "xx" instantaneous time histories. The magnitude of ΔP can be taken as indicator to judge the stationarity (quality) of the respective data-record. If the value of ΔP is in excess of 496% respective data are marked with a triple star (***) to indicate that the data are heavily distorted.

From the pressure-averaged time-history a pressure level spectrum is calculated and labeled "Power Spectrum of Averaged Time History".

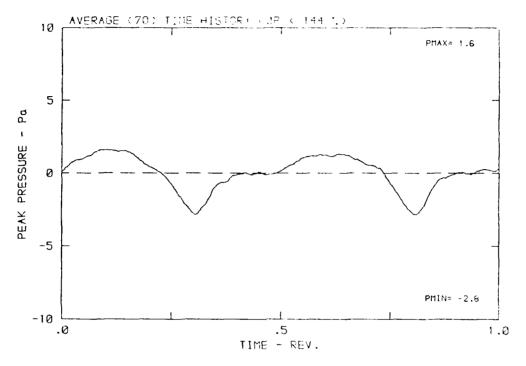
T: 285.9 X n: 2100 rpm MH: .6751 β: 19.9°

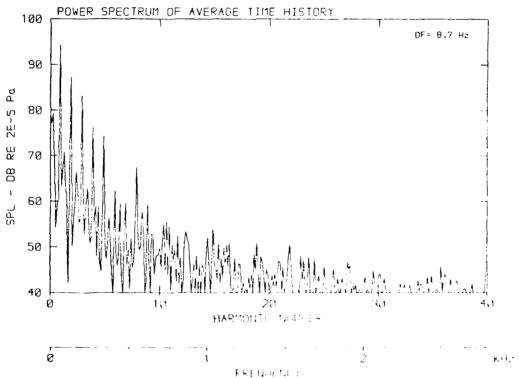




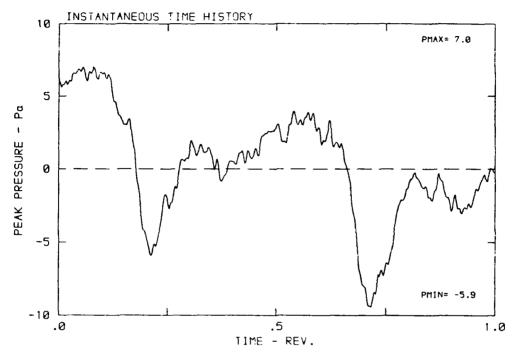
[DATA POINT : GNAT TERMS TEST TEST]

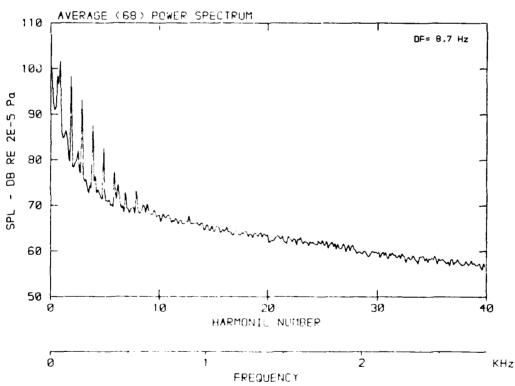
β: 19.9° MH: .6751 m: 2100 cpm (ν/ω: .230 β: -0.4° Τ: 286.9 K





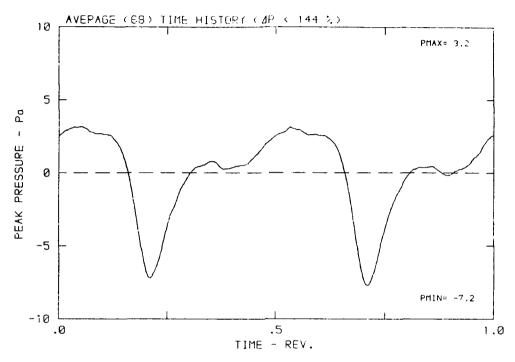
β: 19.9° MH: .6751 n: 2100 rpm ν/u: .230 φ: -7.4° T: 286.9 K

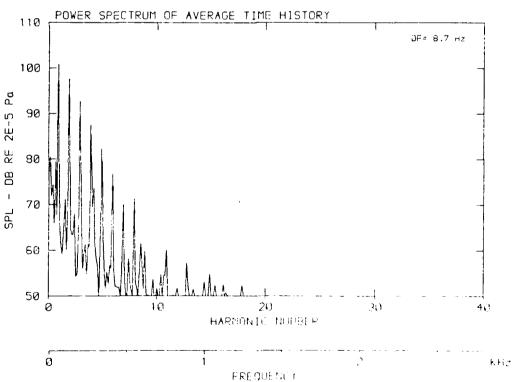




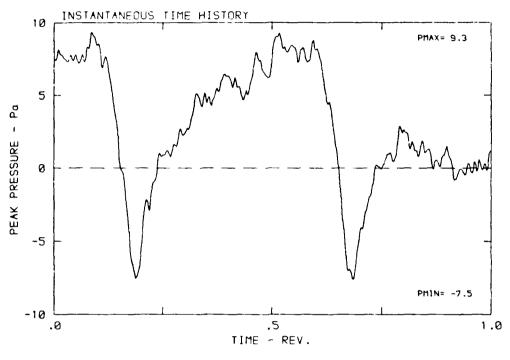
received appropriate parameter fractions appropriately

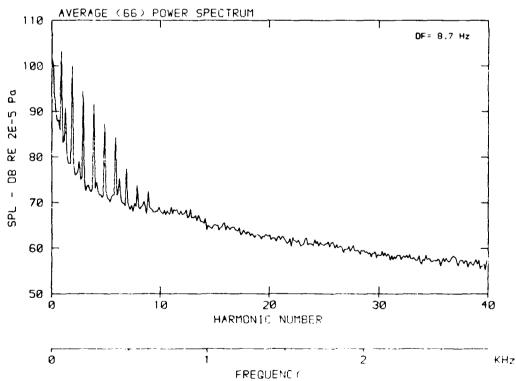
β: 19.9° MH: .6751 n: 2100 npm v/u: .230 φ: -7.4° T: 288.9 K



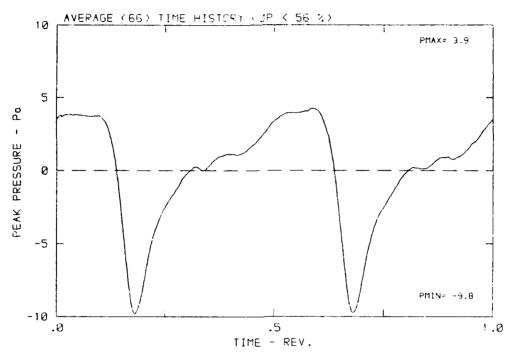


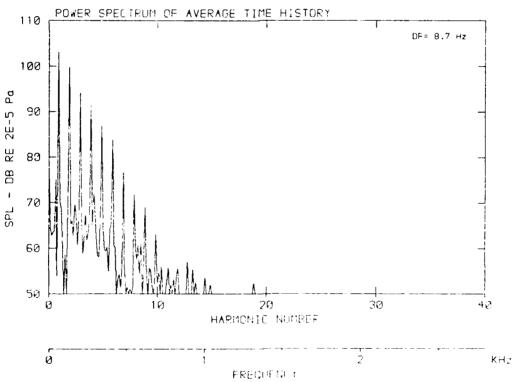
β: 19.9° MH: .6751 n: 2100 npm V/u: .230 φ: -7.4° T: 286.9 K



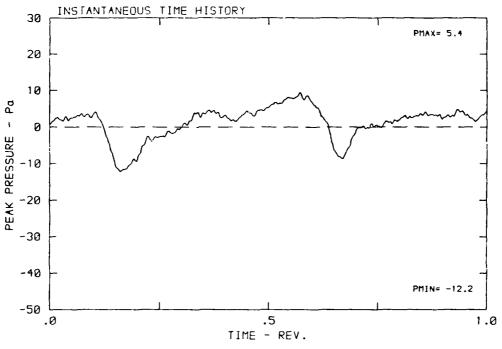


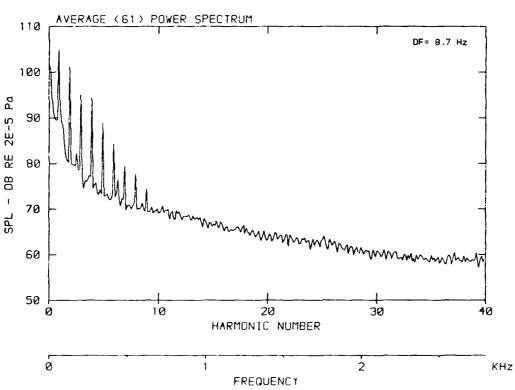
β: 19.9° MH: .6751 n: 2100 rpm v < u: .230 ψ: -7.4° T: 286.9 K





β: 19.9° MH: .6751 n: 2100 npm v/u: .230 φ: -7.4° T: 285.9 K

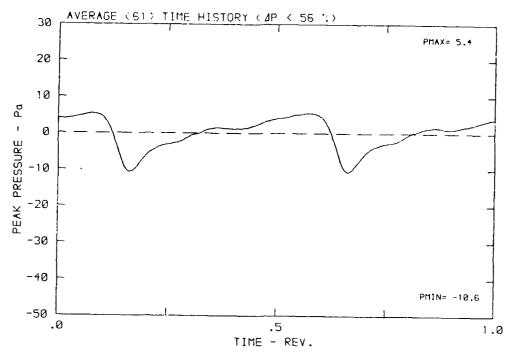


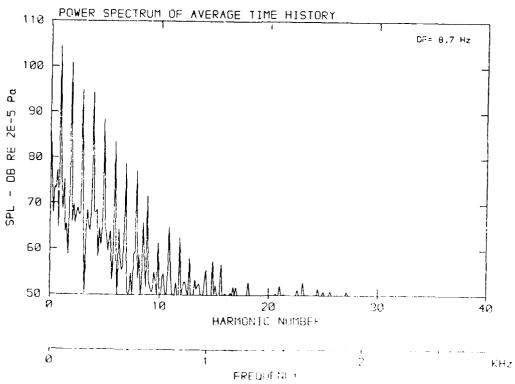


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THE PLANTAL TOURSES

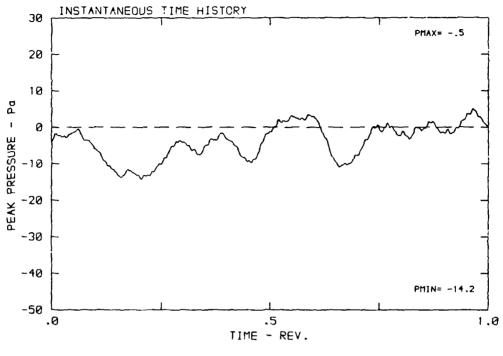
 $\beta\colon\,19.9^{o}\,$ MH: .6751 n: 2100 npm $\,$ v/u: .230 $\,$ $\psi\colon\,$ -7.4° T: 286.9 K

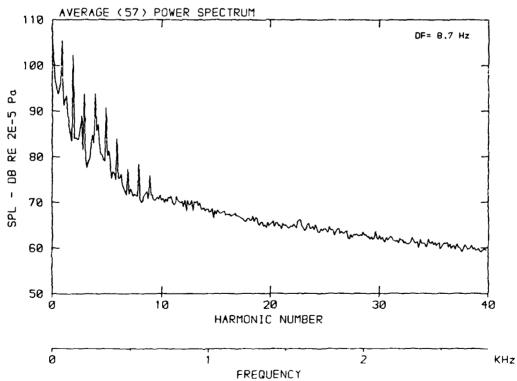




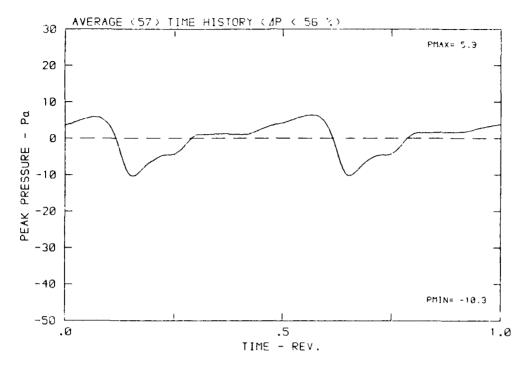
の名詞がいたと

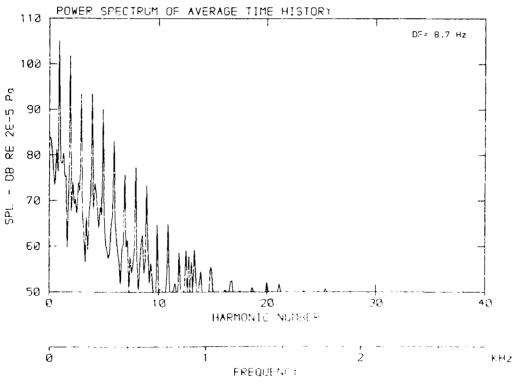
β: 19.9° MH: .6751 n: 2100 rpm v/u: .230 ψ: -7.4° T: 286.9 K



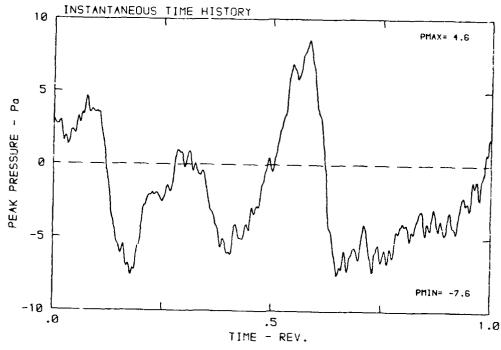


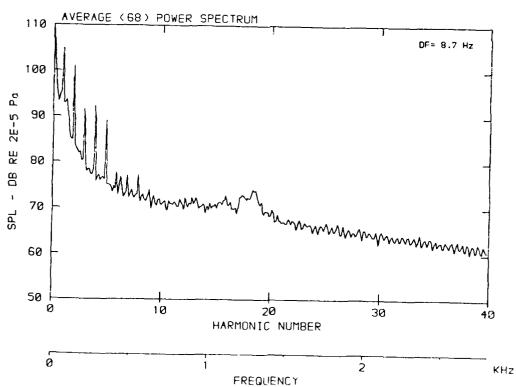
β: 19.9° MH: .6751 n: 2100 rpm γ/u: .230 φ: -7.4° T: 286.9 K



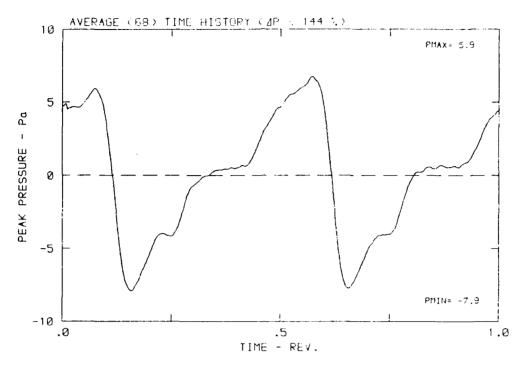


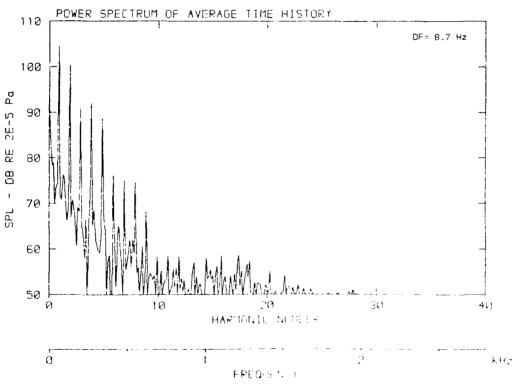
 β : 19.9° MH: .675! n: 2100 rpm v/u: .230 ϕ : -7.4° T: 286.9 K



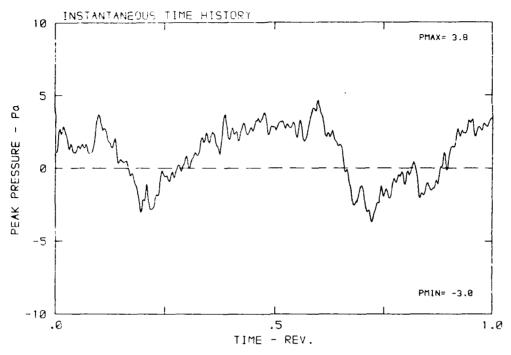


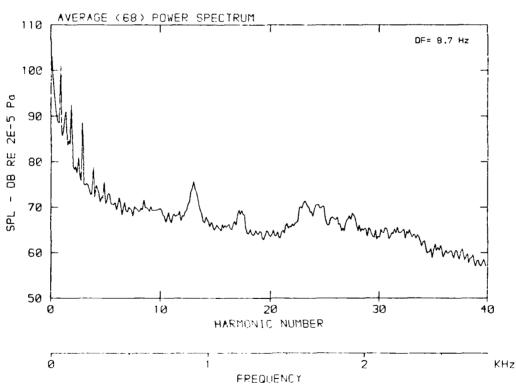
 $β: 19.9^{\circ}$ MH: .6751 n: 2100 npm v/u: .230 $φ: -7.4^{\circ}$ T: 286.9 κ





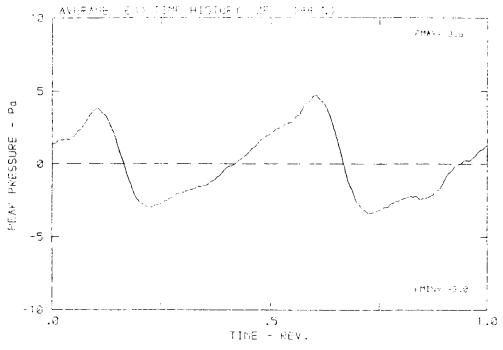
β: 19.9° MH: .6751 n: 2103 apm v/u: .230 φ: -7.4° T: 286.9 K

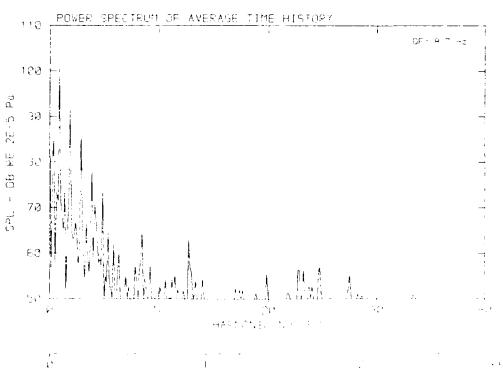




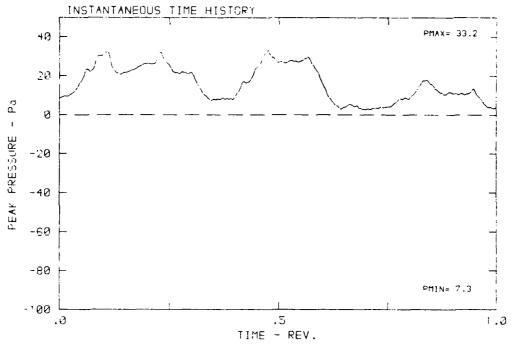
LOAIA POINTS ON-1 POST 151 DES

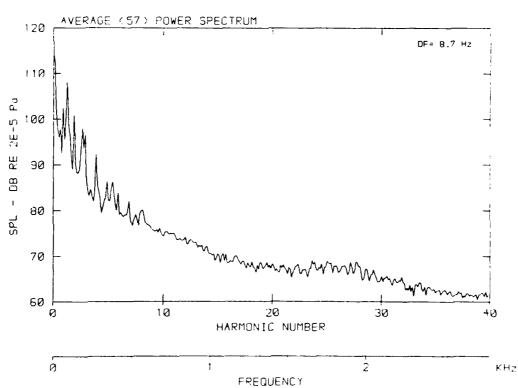
B: 19.9° MH: .675: n: 2100 epm (0: .230) φ:



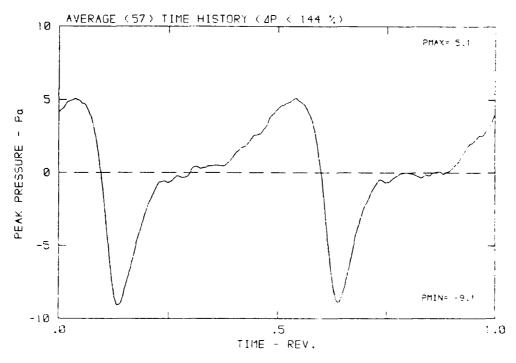


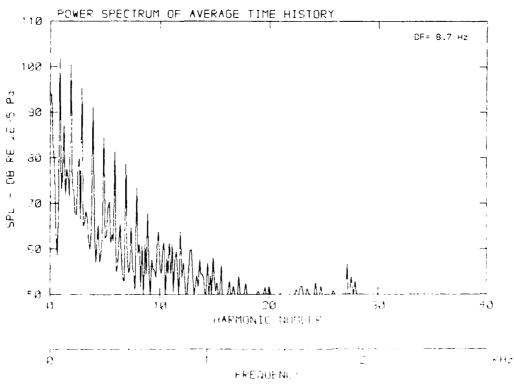
β: 19.9° MH: .6751 n: 2100 npm γ/u: .230 φ: -7.4° T: 286.9 K



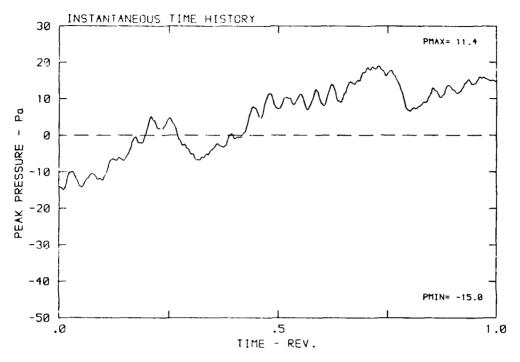


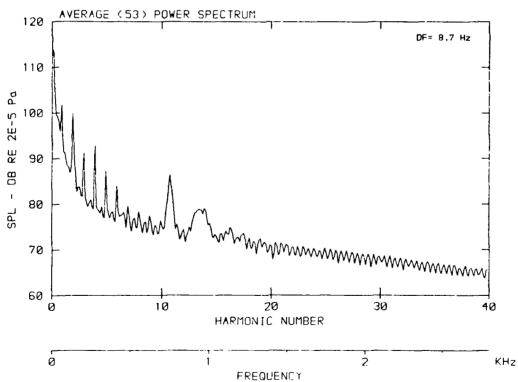
 β : 19.9° MH: .6751 n: 2100 npm v/u: .230 ϕ : -7.4° T: 286.9 K



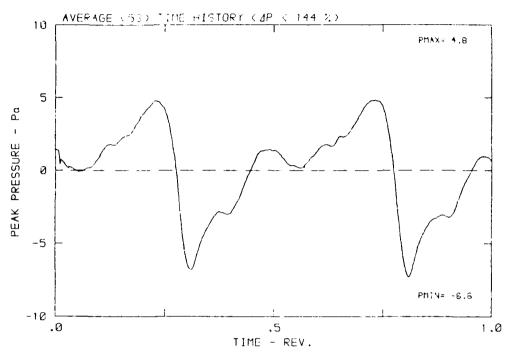


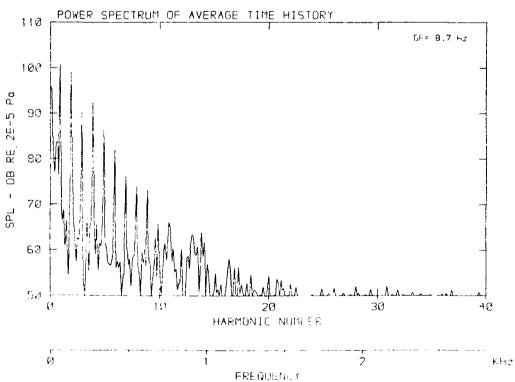
β: 19.9° MH: .6751 n: 2100 rpm ν/u: .230 φ: -7.4° T: 285.3 K



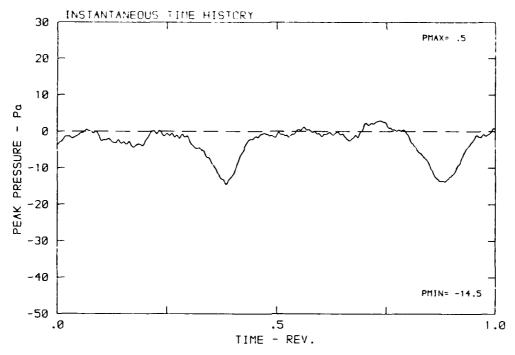


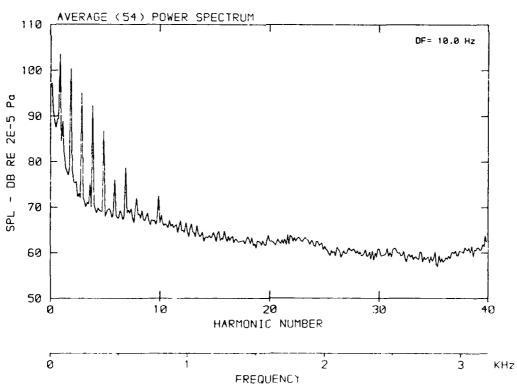
β: 19.9° MH: .6751 n: 2100 npm v/u: .230 φ: -7.4° T: 286.9 K





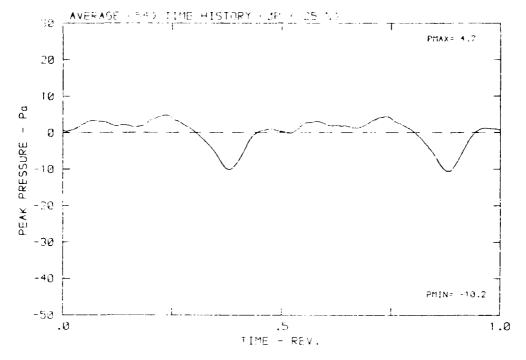
β: 19.9° MH: .7664 n: 2400 rpm γ/u: .202 φ: -7.4° T: 257.5 -

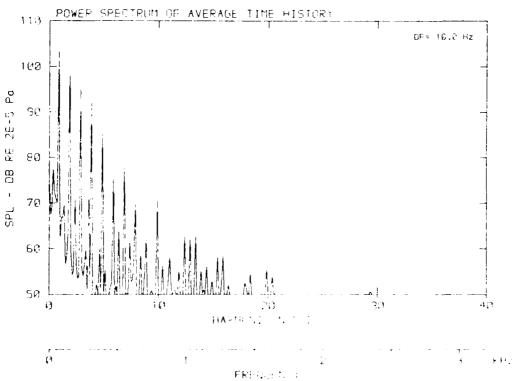




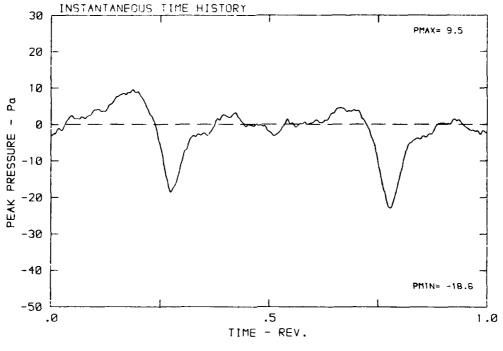
DATA POINTS GN-2 RUM: 15. MES TO B

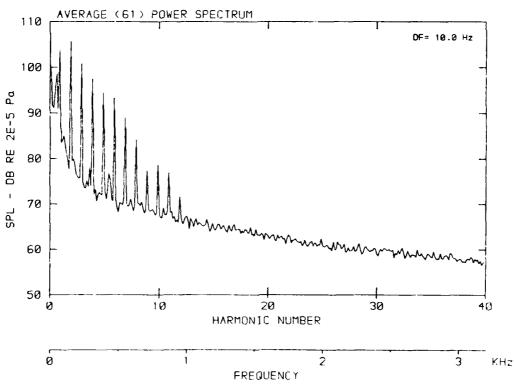
β: 19.9° MH: .7884 in: 2400 npm \sqrt{a} : .202 ϕ : -7.4° T: 287.5 κ





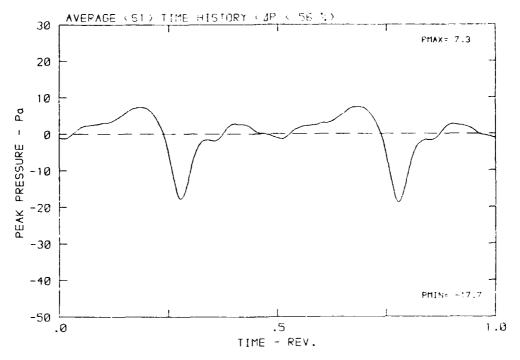
 $\beta\colon\,19.9^{0}\,$ MH: .7664 in: 2400 npm $\,$ v/u: .202 $\,$ $\varphi\colon\,$ -7.40 $\,$ T: 287.5 K



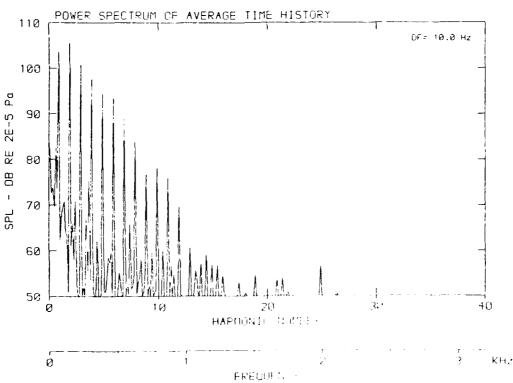


DATA POINT: GN-2 PIN: 152 MP: 2

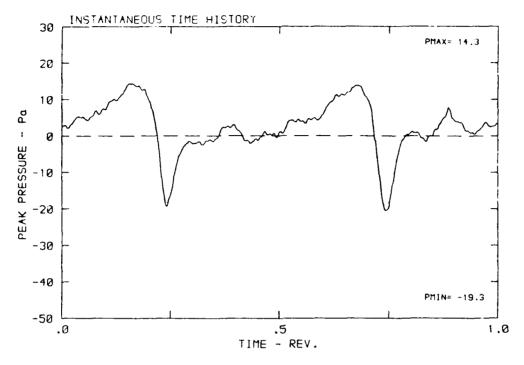
β: 19.9° MH: .7664 n: 2400 rpm v(u) .202 φ: -7.4° ξ: 187.5 K

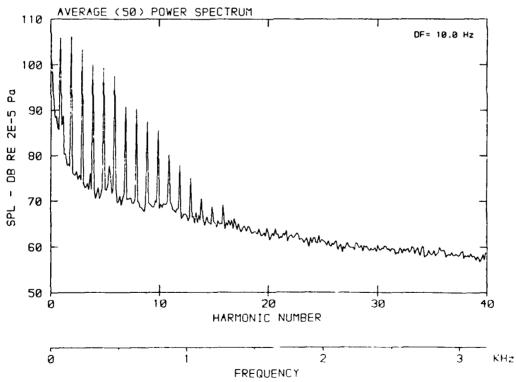


ASSESSED SPECIAL RESPECTATION PROPERTY PROPERTY SECTIONS

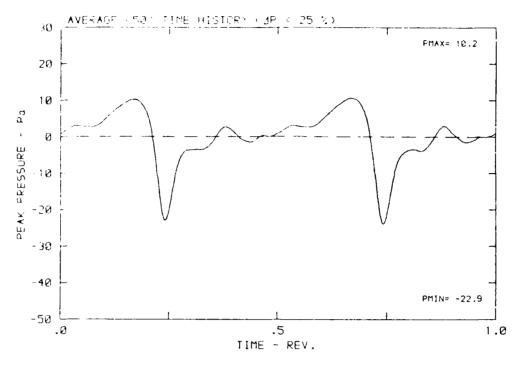


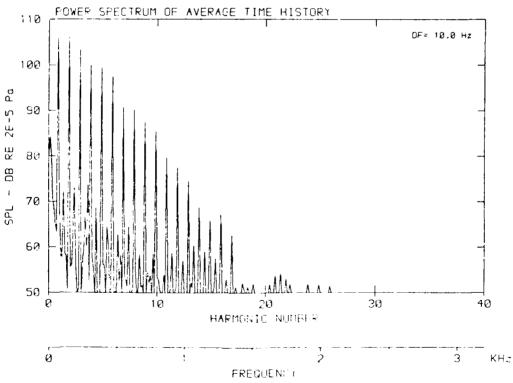
 $β: 19.9^{\circ}$ MH: .7664 in: 2400 npm V/u: .202 $ψ: -7.4^{\circ}$ T: 287.5 k



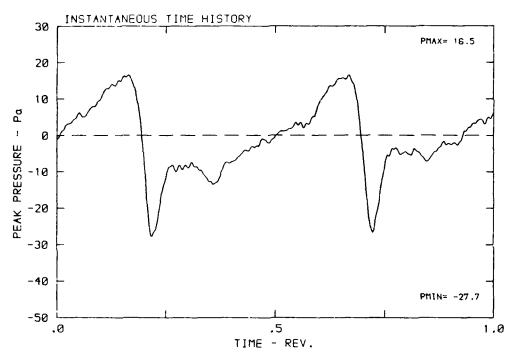


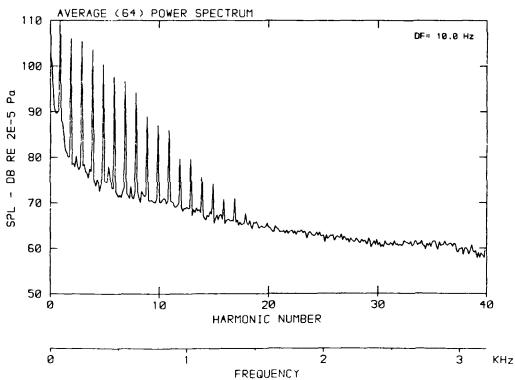
 β : 19.9° MH: .7664 n: 2400 npm viu: .202 ϕ : -7.4° T: 287.5 K



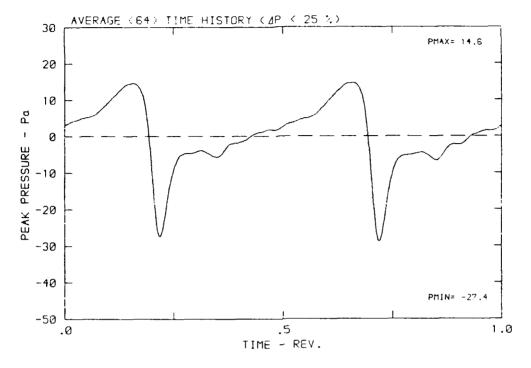


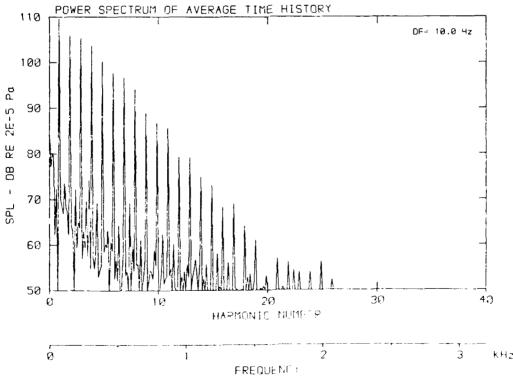
 β : 19.9° MH: .7664 n: 2400 npm v/u: .202 ϕ : -7.4° T: 287.5 K



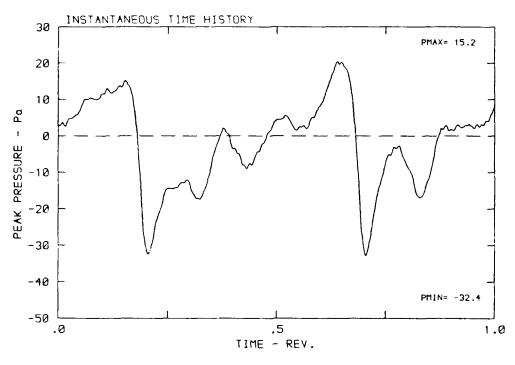


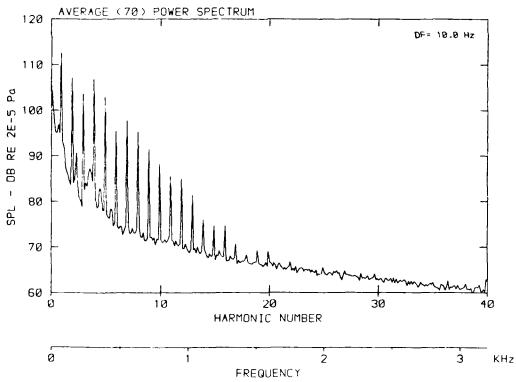
 $\beta\colon\,19.9^{\circ}\,$ MH: .7664 n: 2400 npm $\,$ V/u: .202 $\,$ $\varphi\colon\,-7.4^{\circ}\,$ T: 287.5 K



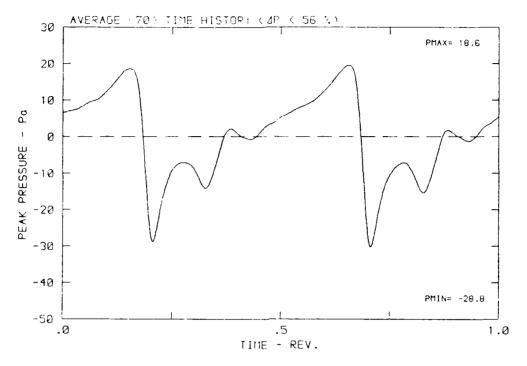


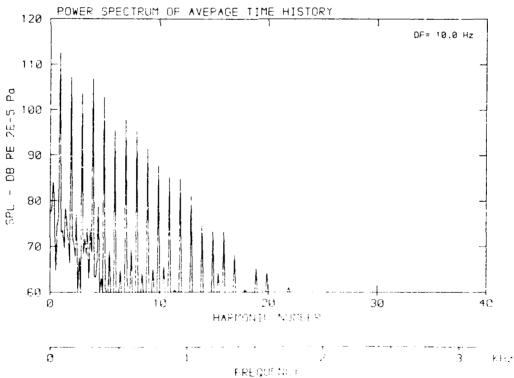
 β : 19.9° MH: .7664 n: 2400 rpm v/u: .202 ϕ : -7.4° T: 287.5 K





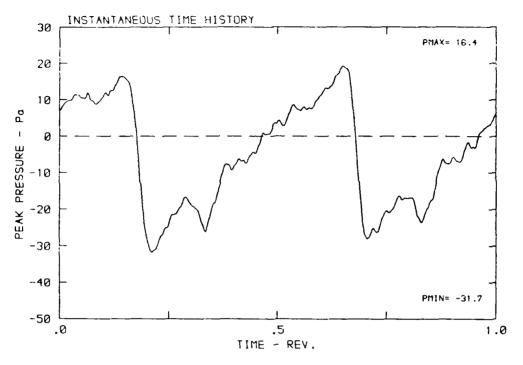
 $\beta\colon\,19.9^{\circ}\,$ MH: .7664 n: 2400 npm $\,$ v/u: .202 $\,$ $\varphi\colon\,-7.4^{\circ}\,$ T: 287.5 K

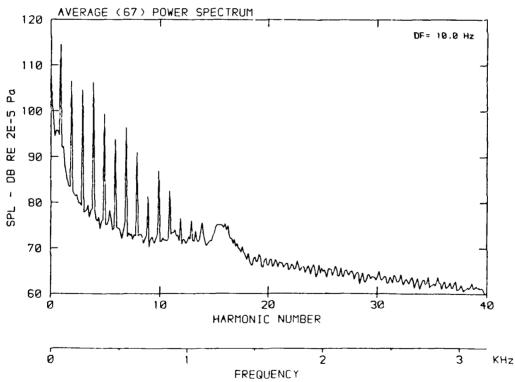




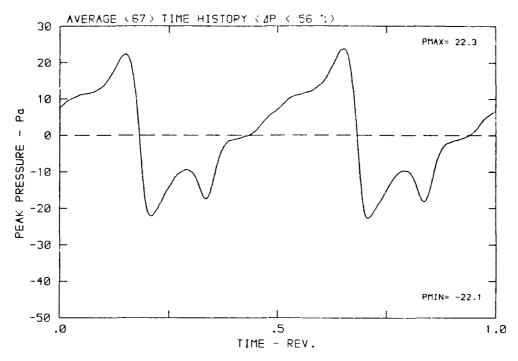
AL POSSESSE CONTRACTOR MARKETS CONTRACTOR

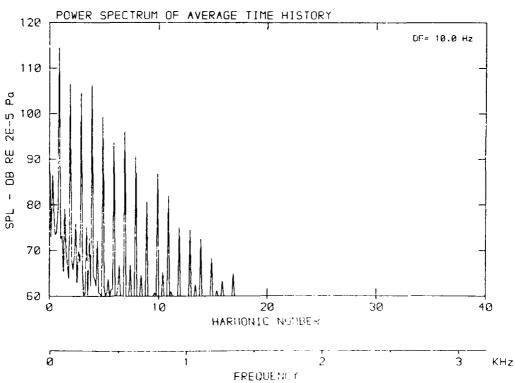
 β : 19.9° MH: .7664 n: 2400 npm v/u: .202 ϕ : -7.4° T: 287.5 K



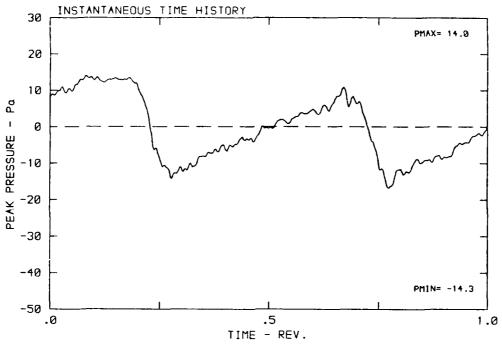


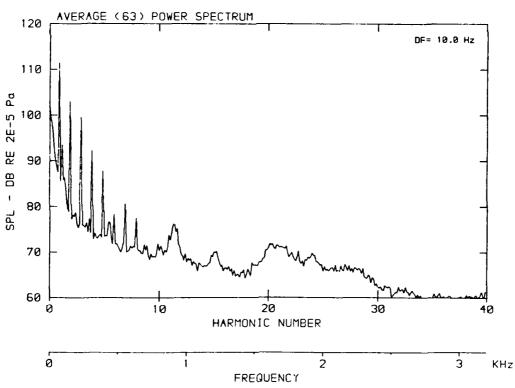
 β : 19.9° MH: .7664 n: 2400 rpm v/u: .202 ϕ : +7.4° T: 287.5 K



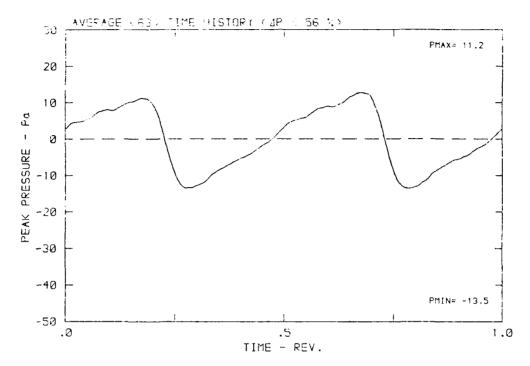


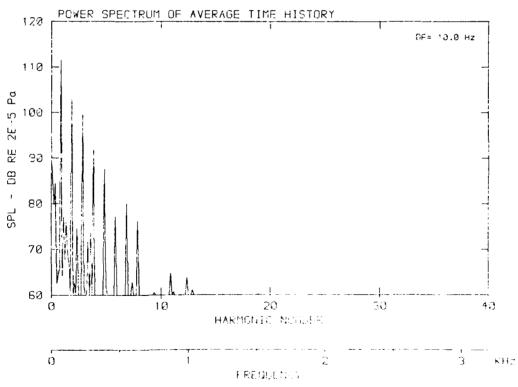
 β : 19.9° MH: .7664 n: 2400 npm v/u: .202 ϕ : -7.4° T: 287.5 K



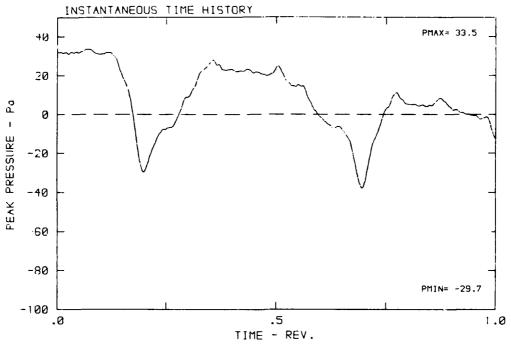


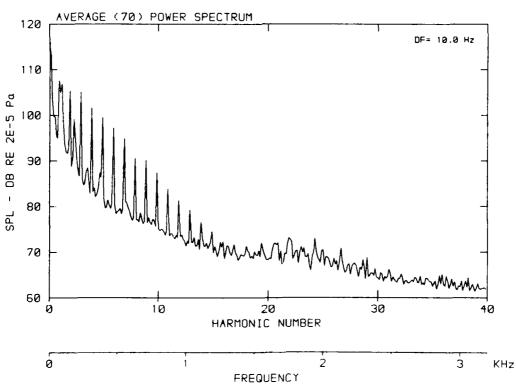
β: 19.9° MH: .7664 n: 2400 npm γ/μ: .202 φ: -7.4° T: 287.5 K



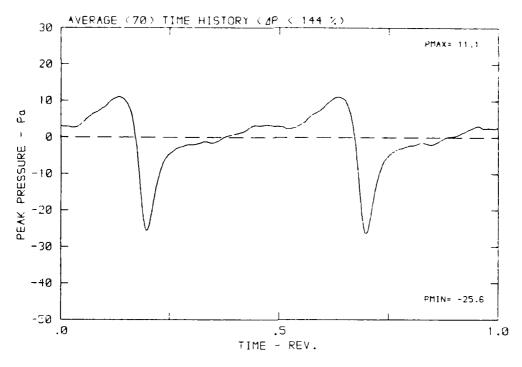


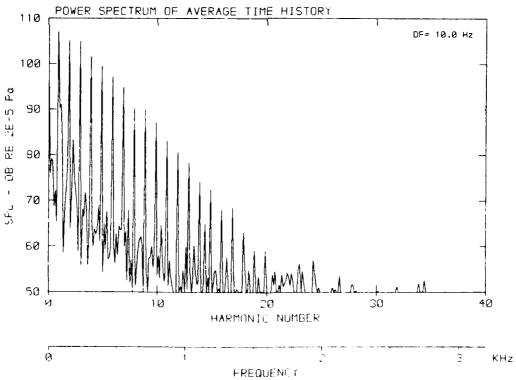
 β : 19.9° MH: .7664 n: 2400 rpm v/u: .202 ϕ : -7.4° T: 287.5 K



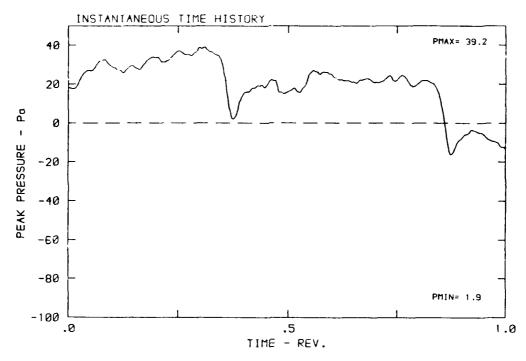


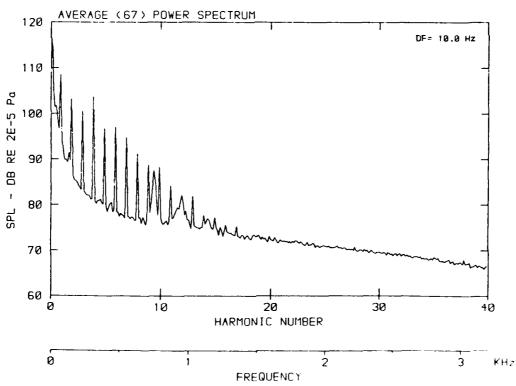
β: 19.9° MH: .7664 n: 2400 rpm v/u: .202 φ: -7.4° T: 287.5 K



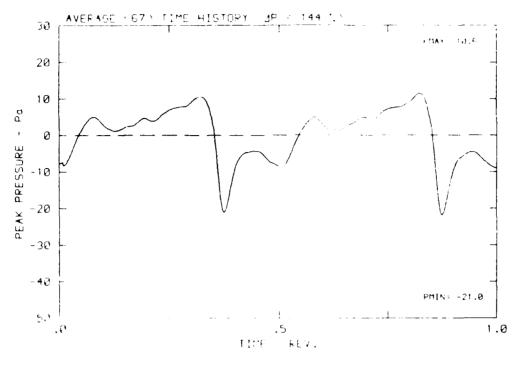


 β : 19.9° MH: .7664 n: 2400 npm V/U: .202 ϕ : -7.4° T: 287.5 K



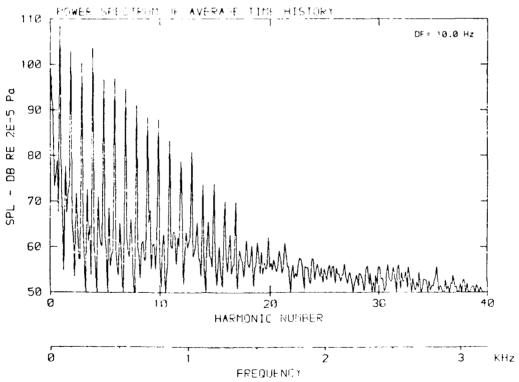


 β : 19.9° MH: .7664 n: 2400 npm v/u: .202 ϕ : -7.4° T: 287.5 K



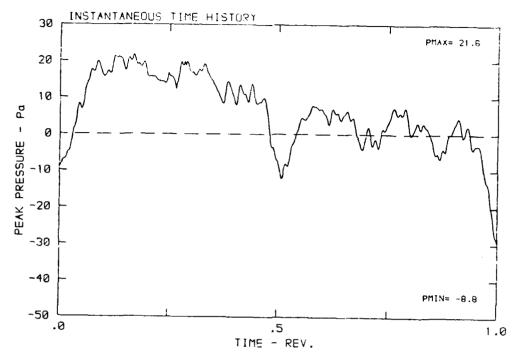
ANALYSIS ANALYSIS BANANAN BEERGERE ANGLAND

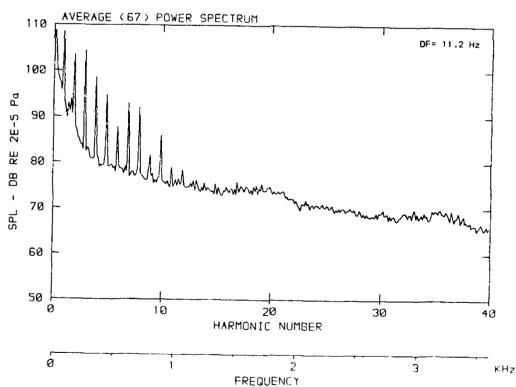
TOTALISM SELECTION CONTRACTOR IN



DATA POINT: GN-3 PUBL: 153 NP:

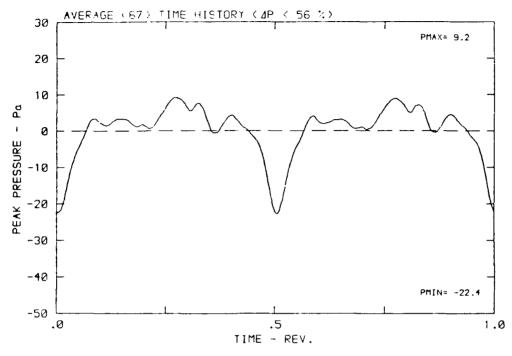
β: 19.9° MH: .8735 n: 2700 npm //4: .268 p: -7.4° τ: 254.4.

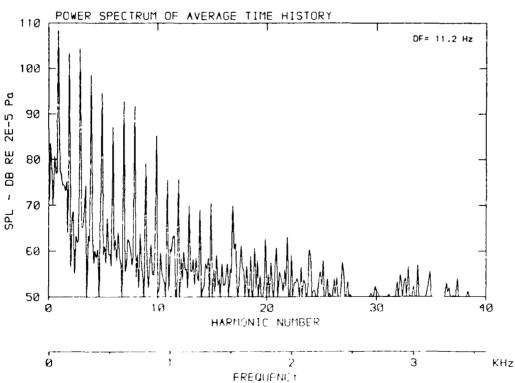




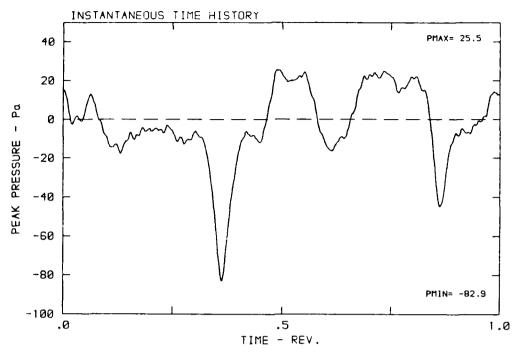
ななとは、これがなりとうと、これにはなるなが

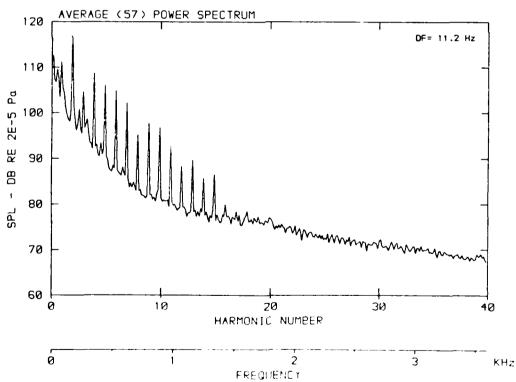
 β : 19.9° MH: .8735 n: 2700 rpm v/u: .268 ϕ : -7.4° T: 288.4 K





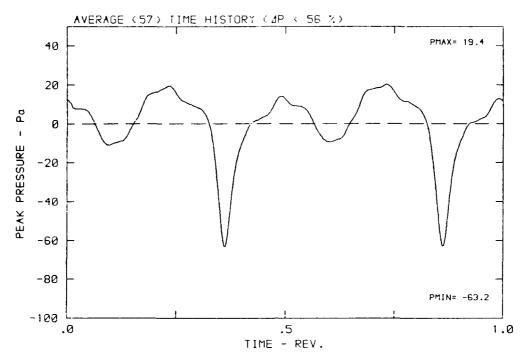
β: 19.9° MH: .8735 n: 2700 rpm v/u: .268 φ: -7.4° T: 288.4 K

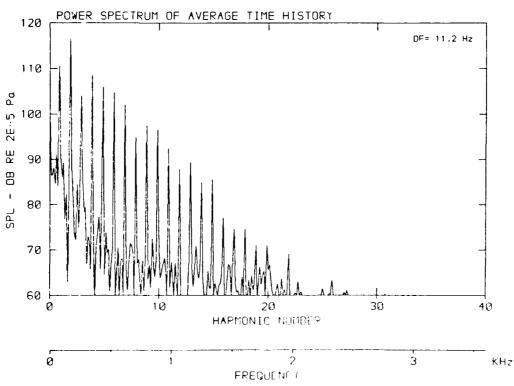




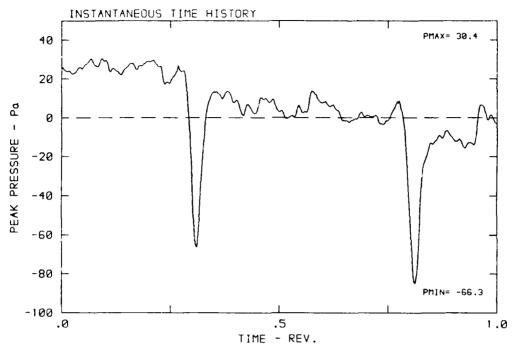
PRODUCE SEPRESANT PROPERTY TRACESSES

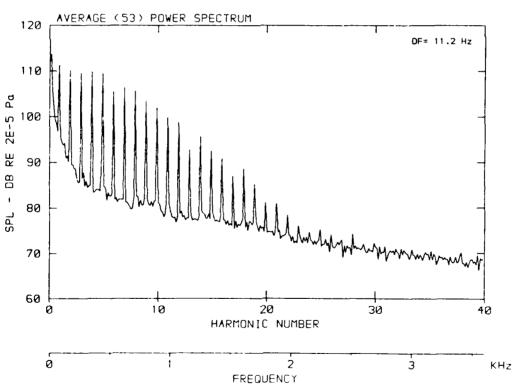
β: 19.9° MH: .8735 n: 2700 rpm ν/u: .268 φ: -7.4° T: 288.4 K



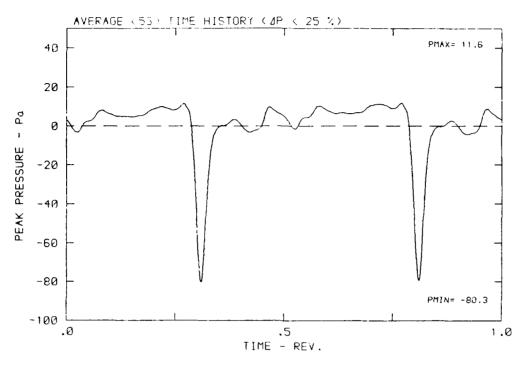


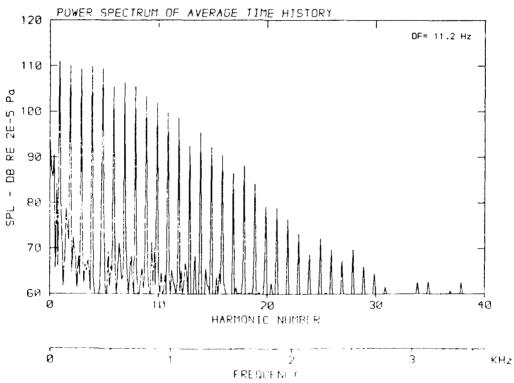
 $\beta\colon\,19.9^{\circ}\,$ MH: .8735 n: 2700 npm v/u: .268 $\varphi\colon\,-7.4^{\circ}\,$ T: 288.4 K



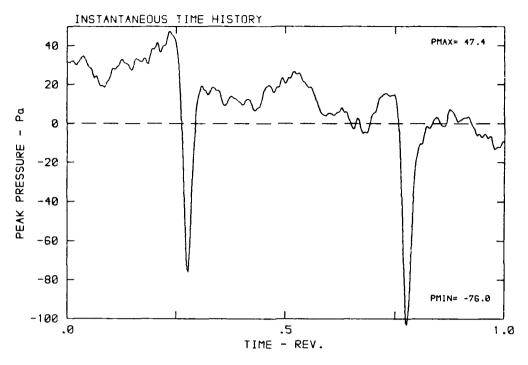


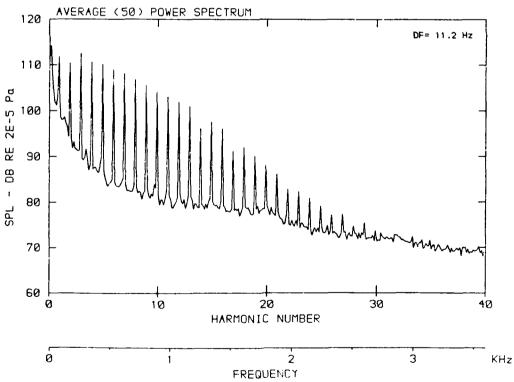
 β : 19.9° MH: .8735 n: 2700 rpm v/u: .268 ϕ : -7.4° T: 288.4 K





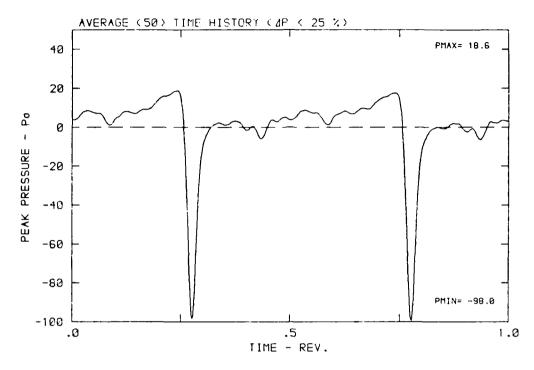
 β : 19.9° MH: .8735 n: 2700 npm v/u: .268 ϕ : -7.4° T: 288.4 K

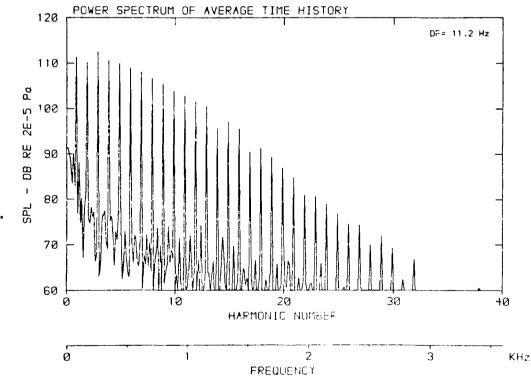




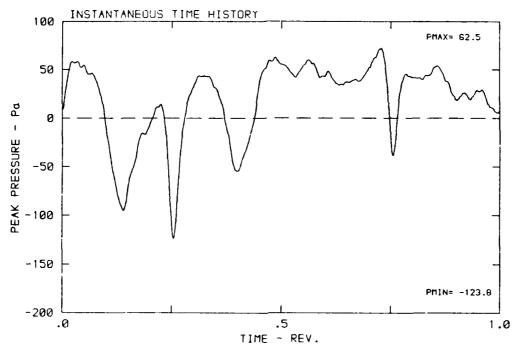
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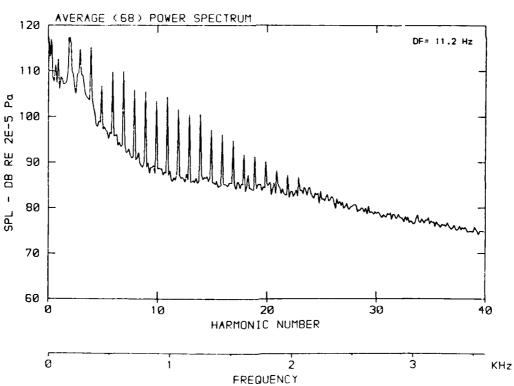
 β : 19.9° MH: .8735 n: 2700 rpm v/u: .268 ϕ : -7.4° T: 288.4 K



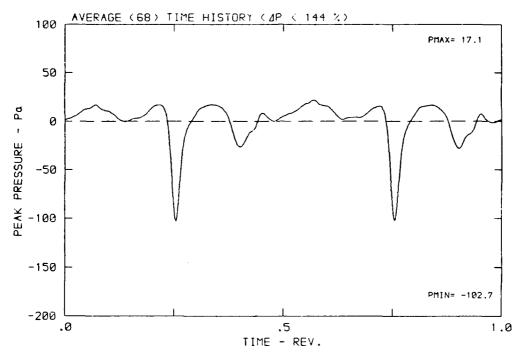


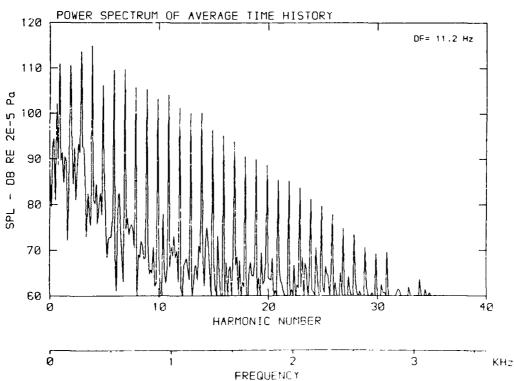
β: 19.9° MH: .8735 n: 2700 rpm ν/u: .268 φ: -7.4° T: 288.4 K



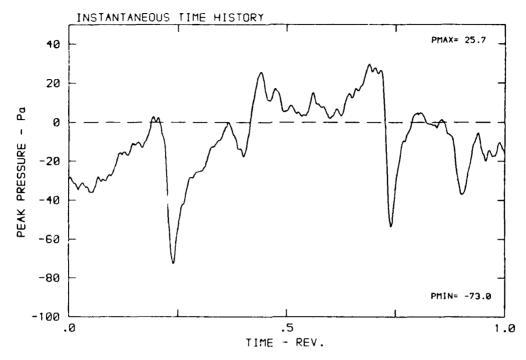


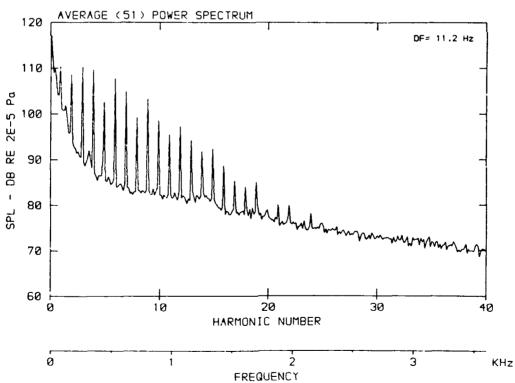
 β : 19.9° MH: .8735 n: 2700 npm vxu: .268 ϕ : -7.4° T: 288.4 K



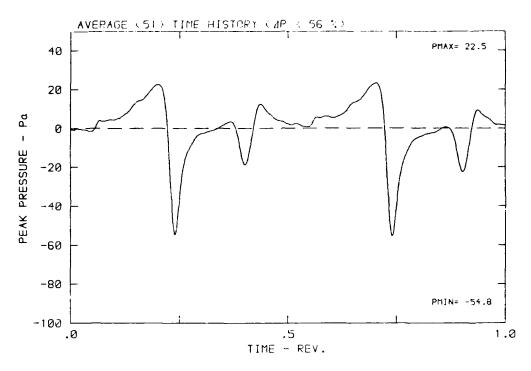


 β : 19.9° MH: .8735 n: 2700 rpm V/U: .268 ϕ : -7.4° T: 288.4 K

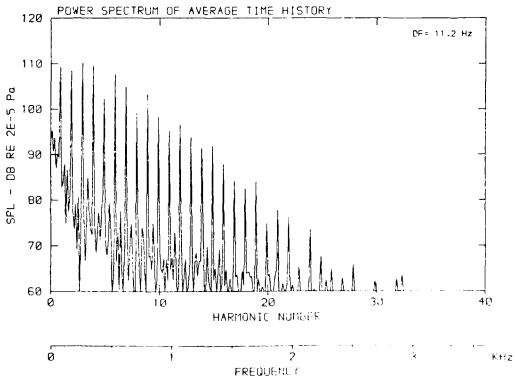




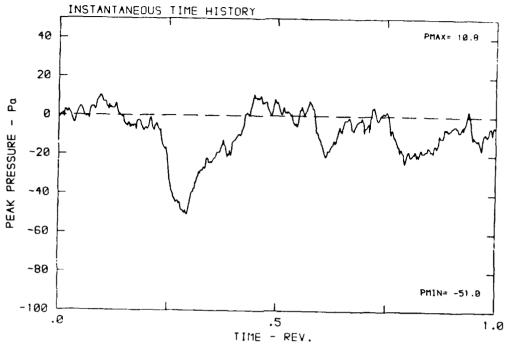
 β : 19.9° MH: .8735 n: 2700 npm v/u: .268 ϕ : -7.4° T: 288.4 K

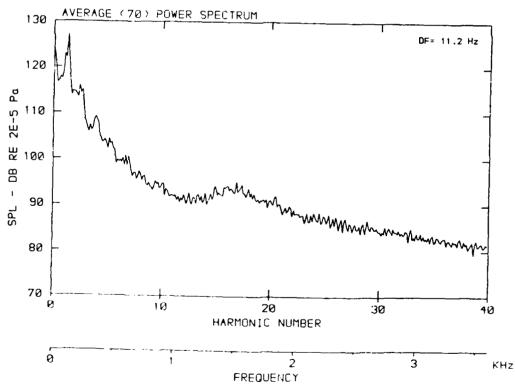


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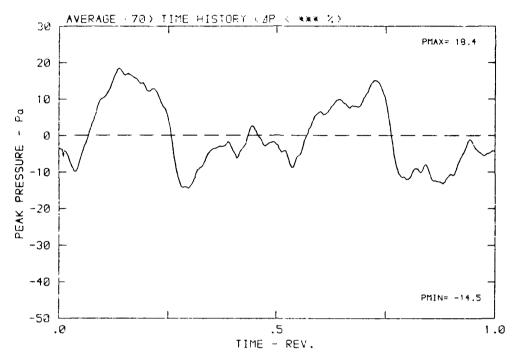


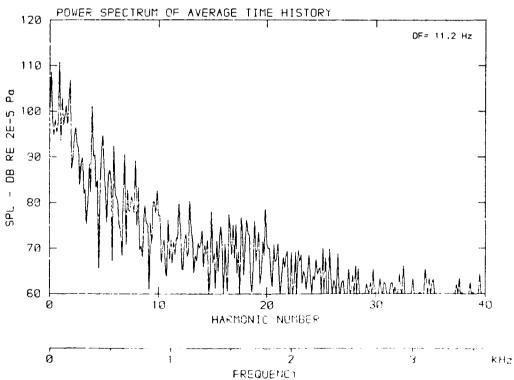
β: 19.9° MH: .8735 n: 2700 npm V/u: .268 ψ: -7.4° T: 299.4 K



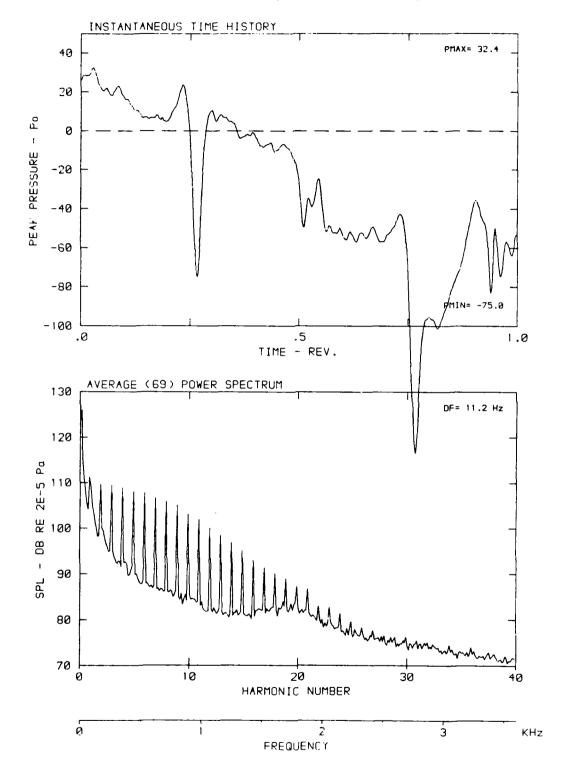


 $β: 19.9^{\circ}$ MH: .8735 n: 2700 rpm v/u: .268 $φ: -7.4^{\circ}$ T: 288.4 K

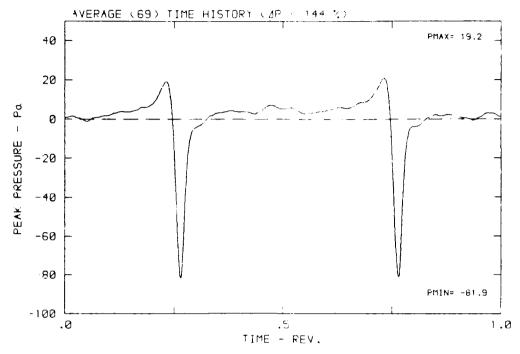


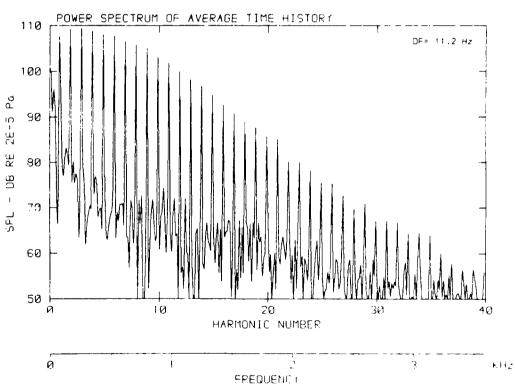


 β : 19.9° MH: .8735 n: 2700 rpm v/u: .268 ϕ : -7.4° T: 288.4 K

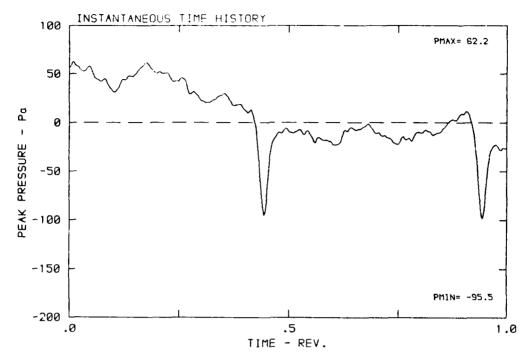


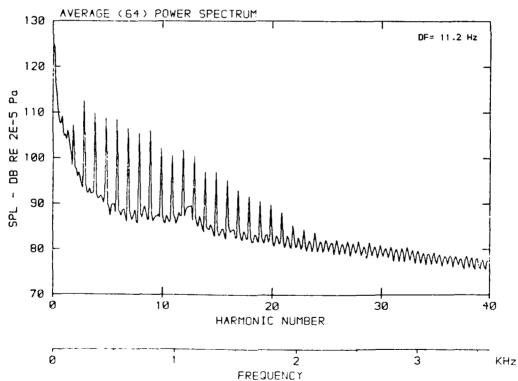
β: 19.9° MH: .8735 n: 2700 npm v/u: .268 φ: -7.4° T: 288.4 ⊬



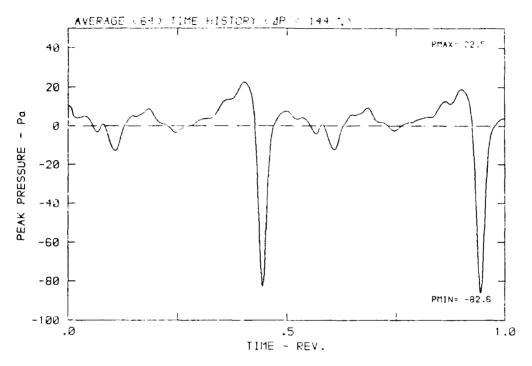


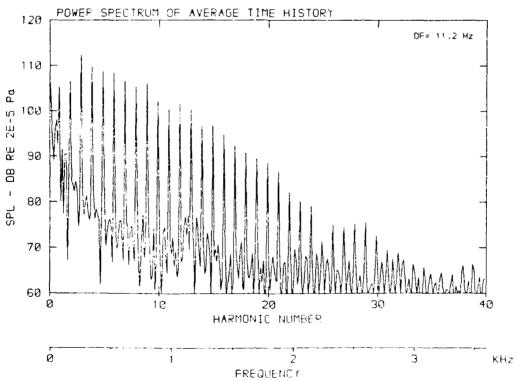
β: 19.9° MH: .8735 n: 2700 rpm γ/u: .268 φ: -7.4° T: 288.4 K





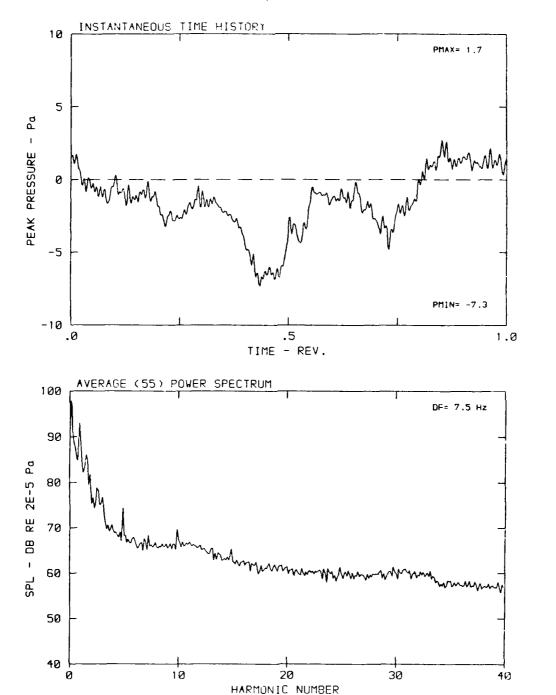
 β : 19.9° MH: .8735 n: 2700 rpm v/u: .268 ϕ : -7.4° T: 288.4 K





DATA POINT: GN-4 RUN: 148 MP: 1

 β : 23.7° MH: .5829 n; 1800 rpm v/u: .257 ϕ : -7.4° T: 287.7 K



FREQUENCY

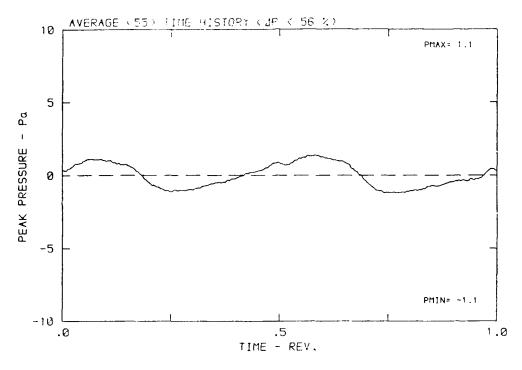
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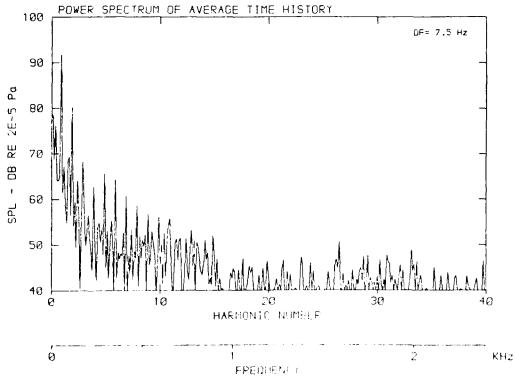
KHz

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DATA POINT: 5N-4 RUN: 148 MP: 1

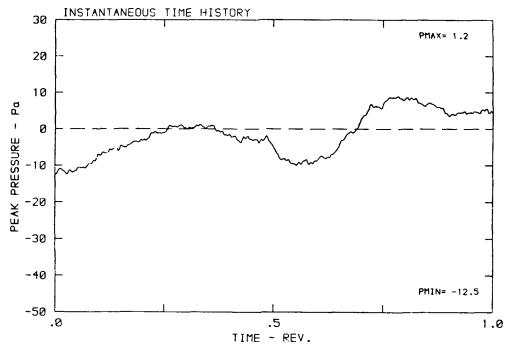
 β : 23.7° MH: .5829 n: 1800 rpm v/u: .267 ϕ : -7.4° T: 287.7 K

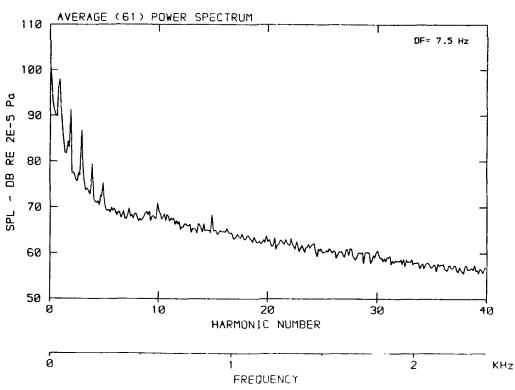




DATA POINT: GN-4 RUN: 148 MP: 2

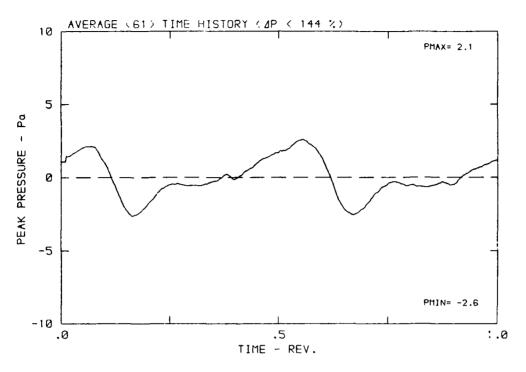
 β : 23.7° MH: .5829 n: 1800 rpm v/u: .267 ϕ : -7.4° T: 287.7 K

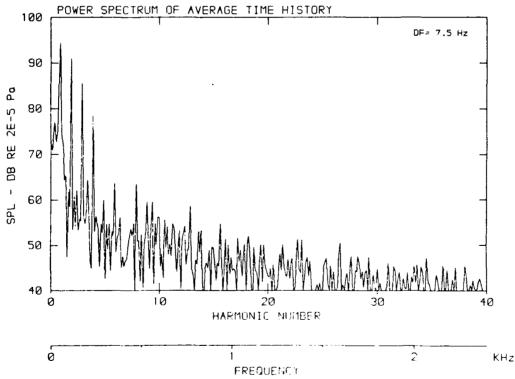


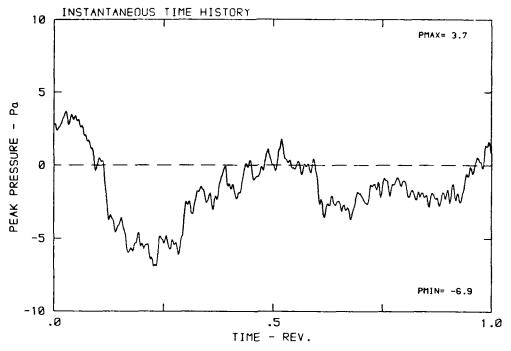


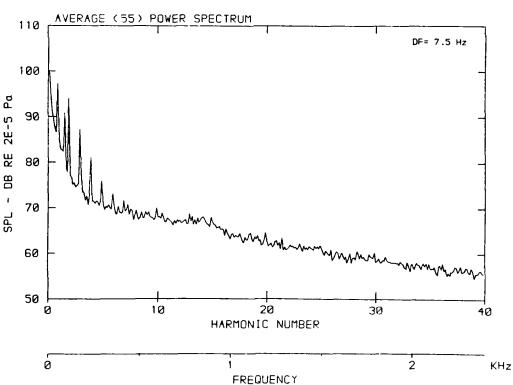
DATA POINT: GN-4 RUN: 148 MP: 2

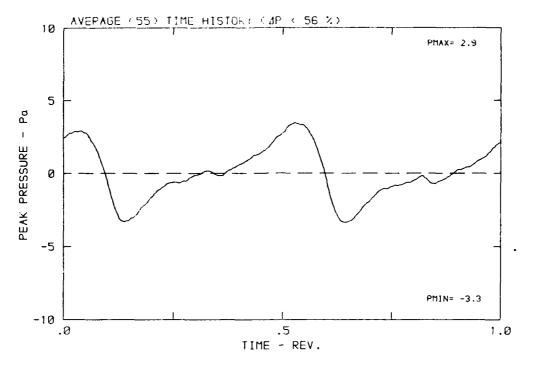
β: 23.7° MH: .5829 n: 1800 npm ν/u: .267 φ: -7.4° T: 287.7 K

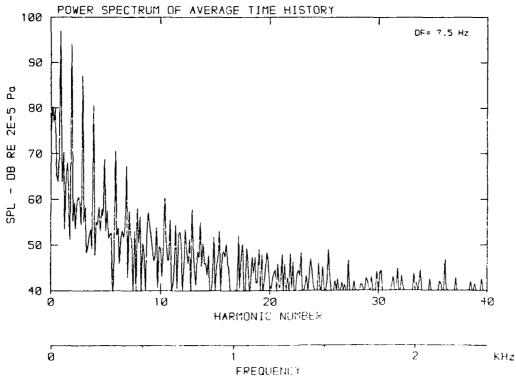


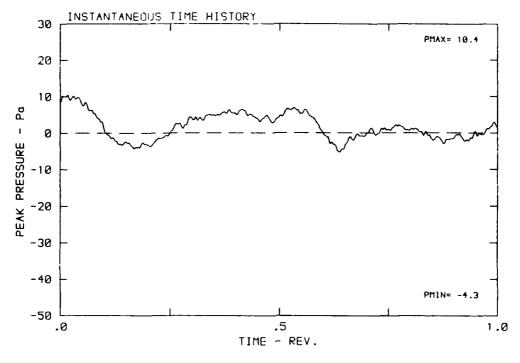


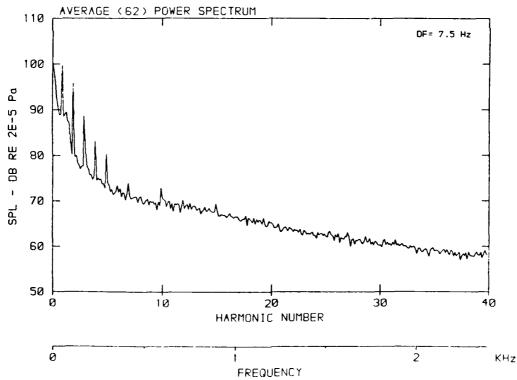


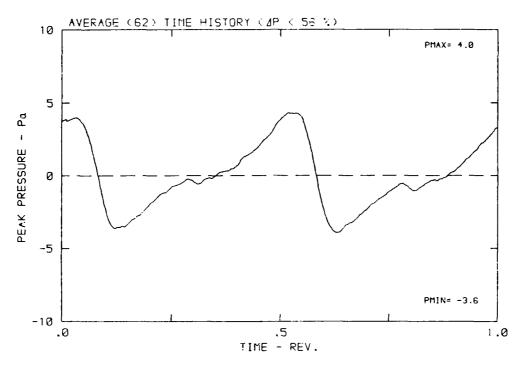


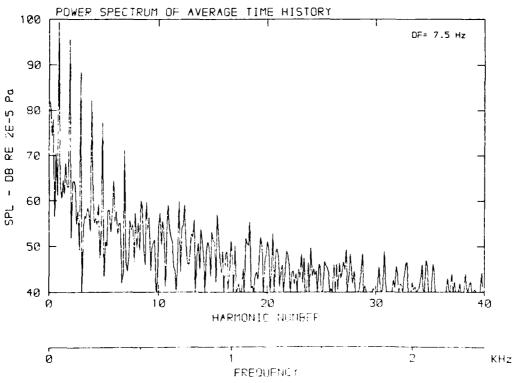






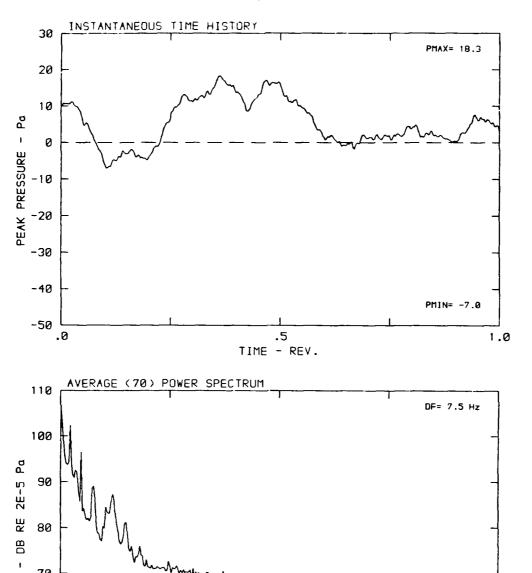






148 MP: DATA POINT: RUN: GN-4

 β : 23.7° MH: .5829 n: 1800 rpm v/u: .267 ϕ : -7.40 T: 287.7 K



20

HARMONIC NUMBER

FREQUENCY

30

2

40

KHz

80

70

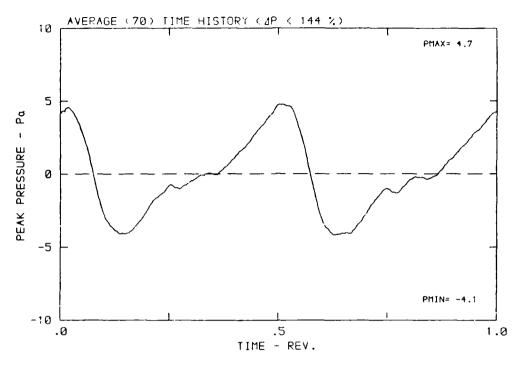
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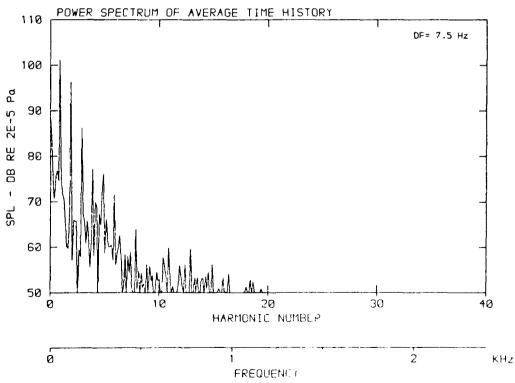
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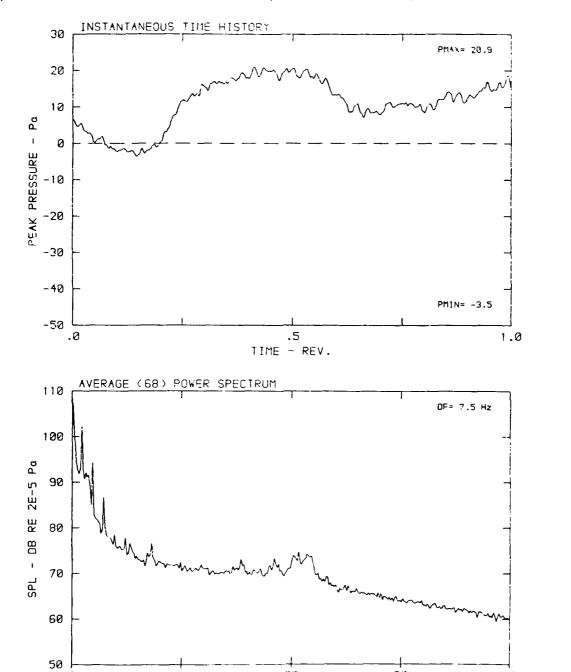
10

 $\beta\colon\,23.7^{o}\,$ MH: .5829 n: 1800 npm v/u: .267 $\varphi\colon\,-7.4^{o}\,$ T: 287.7 K





β: 23.7° MH: .5829 n: 1830 npm - v/u: .207 φ: -7.4° T: 237.7



20

HARMONIC NUMBER

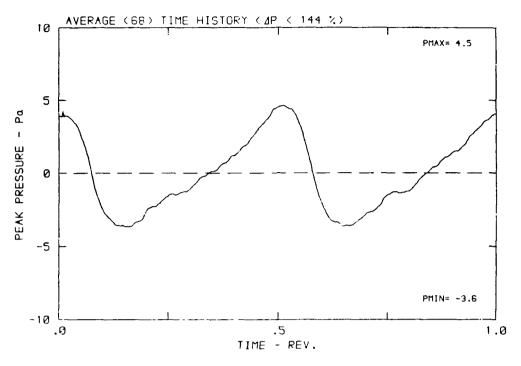
FREQUENCY

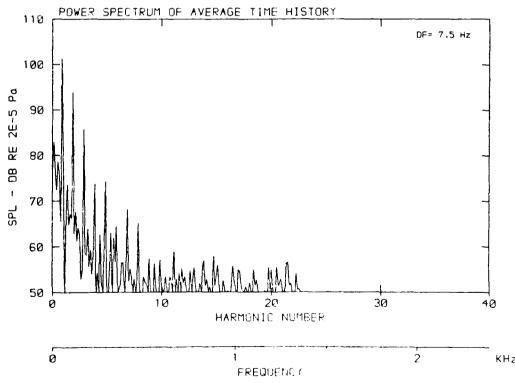
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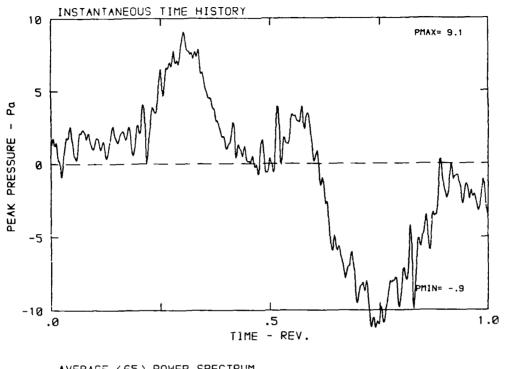
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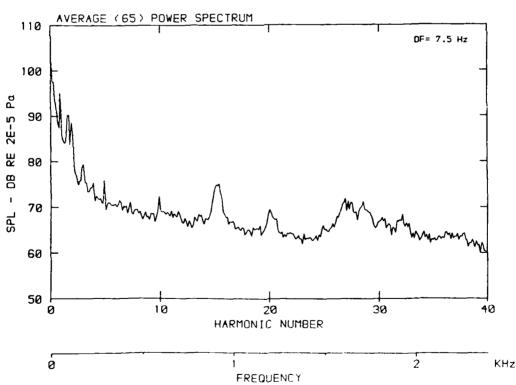
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KH2

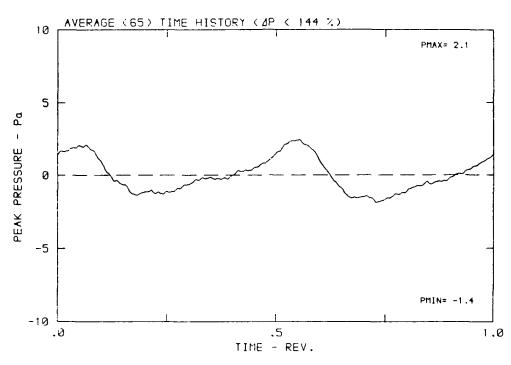




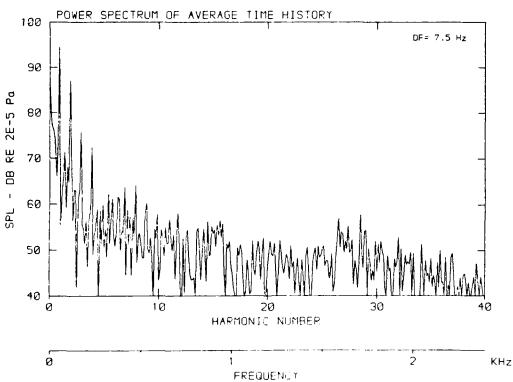




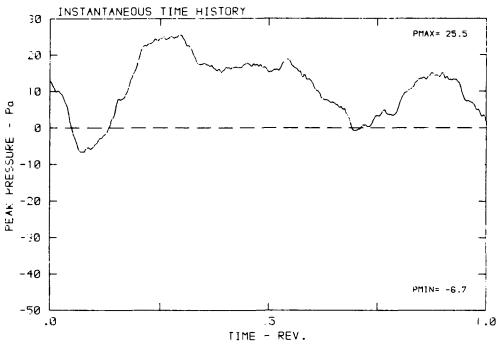
 $\beta\colon\,23.7^{\circ}\,$ MH: .5829 n: 1800 rpm v/u: .267 $\varphi\colon\,-7.4^{\circ}\,$ T: 287.7 K

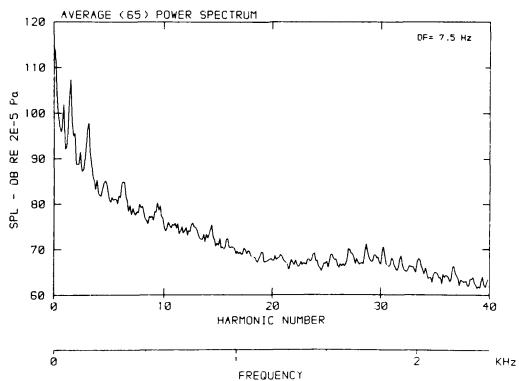


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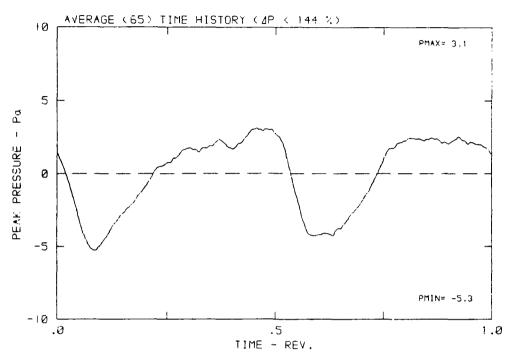


 $\beta\colon\,23.7^{\circ}$ MH: .5829 n: 1800 rpm v/u: .267 $\varphi\colon\,-7.4^{\circ}$ T: 287.7 K

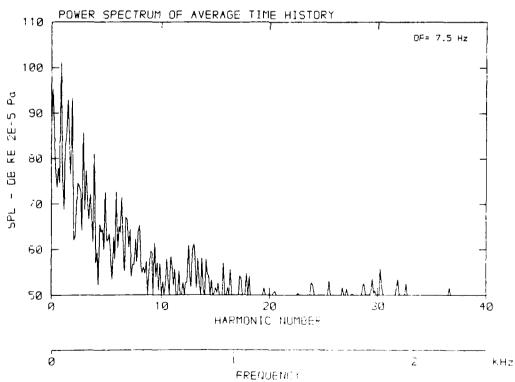




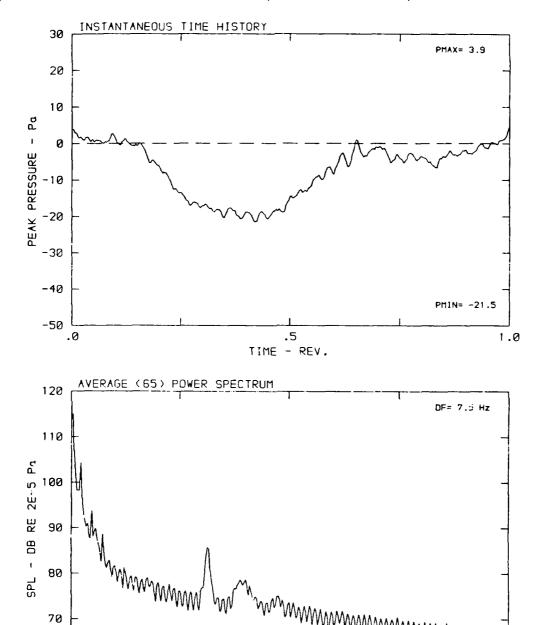
β: 23.7° MH: .5829 n: 1800 rpm v/u: .267 φ: -7.4° T: 287.7 κ



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 β : 23.7° MH: .5829 n: 1800 npm $\mbox{ v/u}$: .267 $\mbox{ }\phi$: -7.4° T: 287.7 $\mbox{ } \mbox{K}$



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HARMONIC NUMBER

FREQUENCY

30

KHz

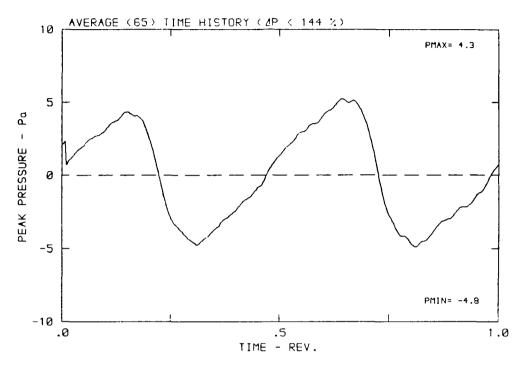
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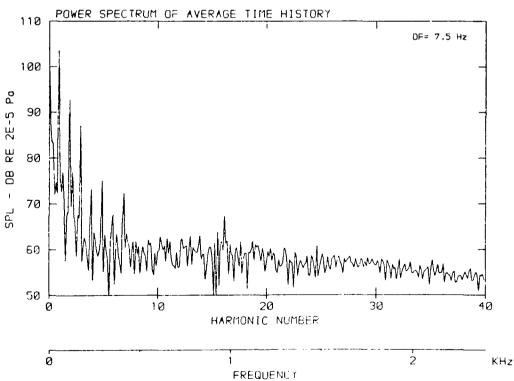
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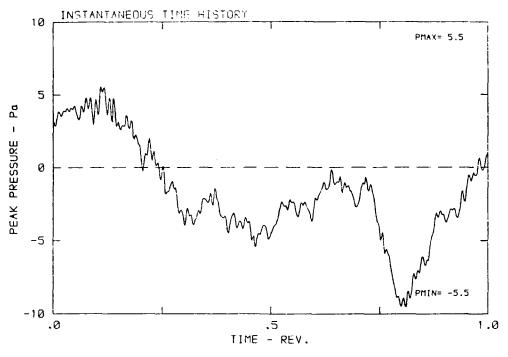
の方式を見られている。

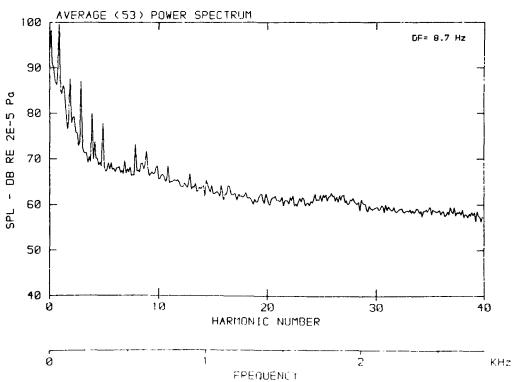
 β : 23.7° MH: .5829 n: 1800 rpm v/u: .267 ϕ : -7.4° T: 287.7 K



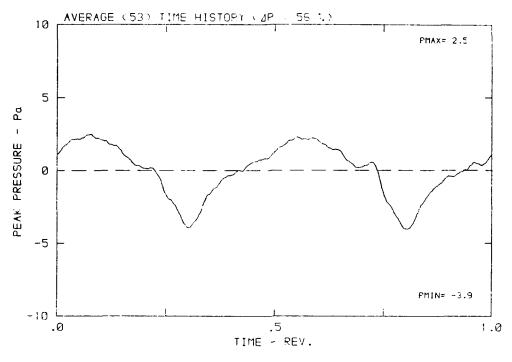


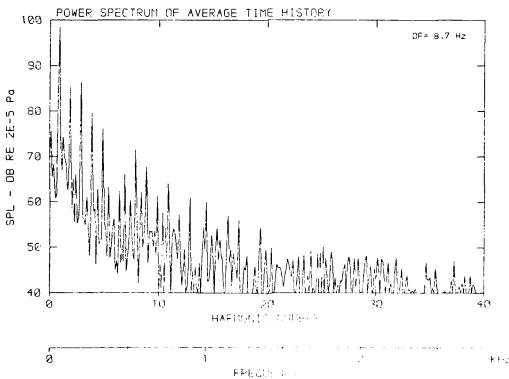
 β : 23.7° MH: .6735 n: 2100 rpm v/u: .229 ϕ : -7.4° T: 298.2 %



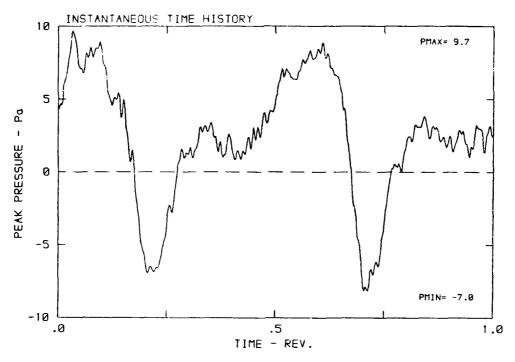


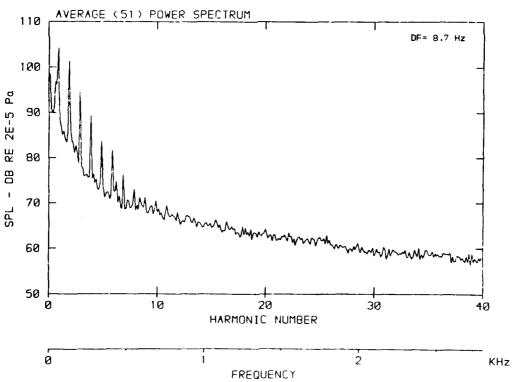
β: 23.7° MH: .6735 n: 2100 rpm v u: .229 φ: -7.4° T: 289.2 -

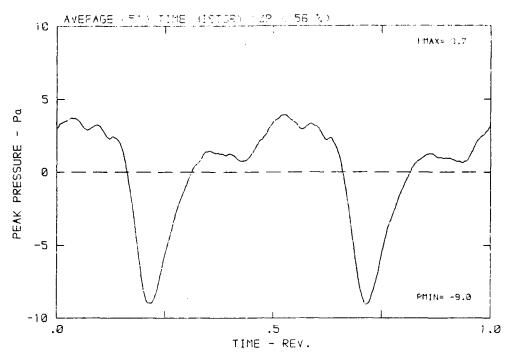


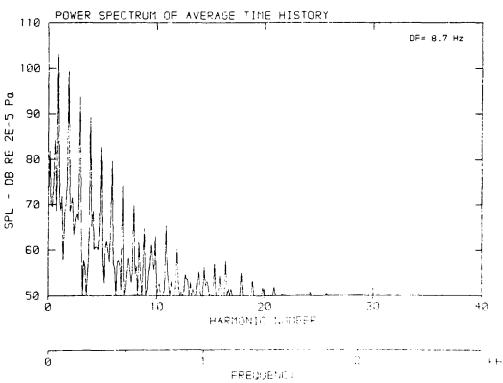


 β : 23.7° MH: .6735 n: 2100 rpm v/u: .229 ϕ : -7.4° T: 288.2 K

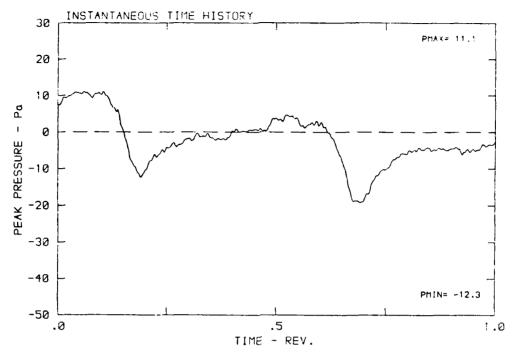


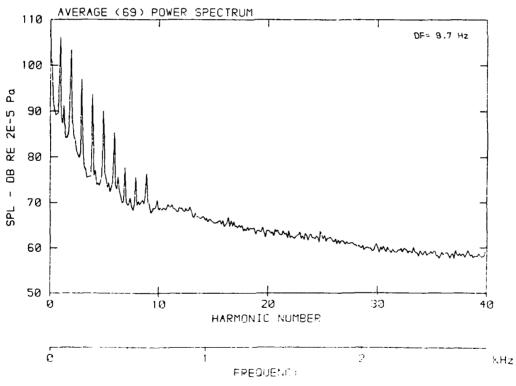




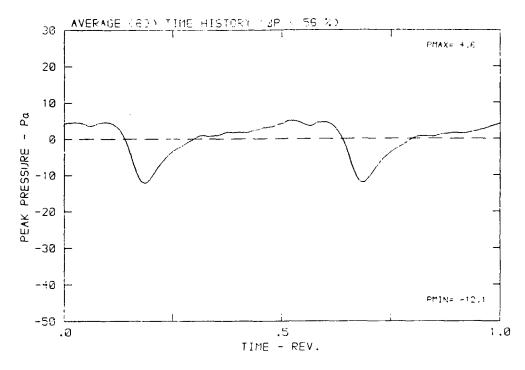


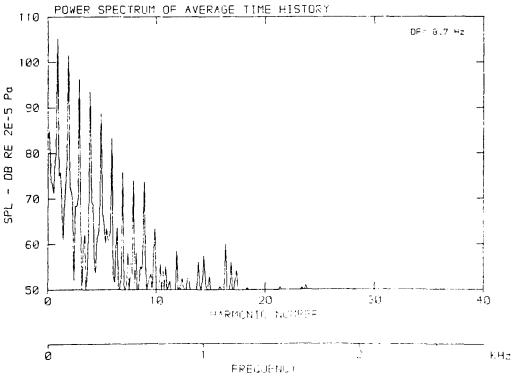
β: 23.7° MH: .6735 n: 2120 rpm γ/u: .223 φ: -1.4° 1: 25



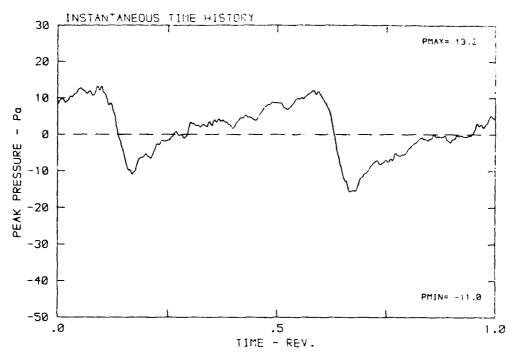


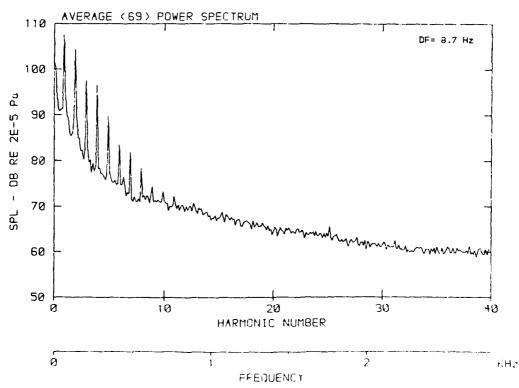
 β : 23.7° MH: .6735 n: 2100 npm v/u: .229 ϕ : -7.4° T: 283.2 K



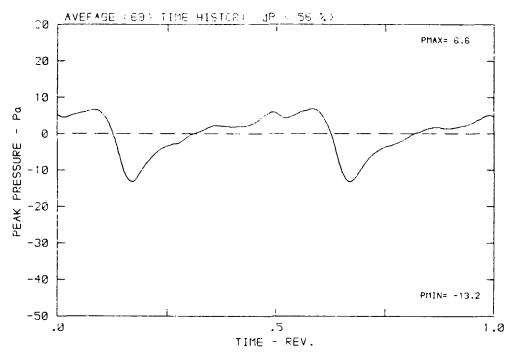


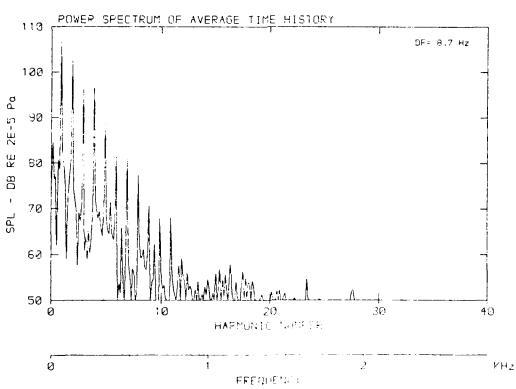
β: 23.7° MH: .6735 n: 2100 rpm γ/u: .229 φ: -7.4° 7: 28-.2 k



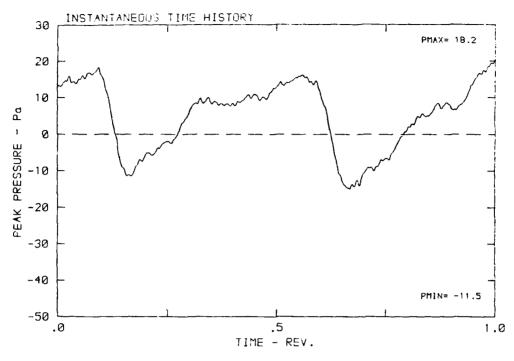


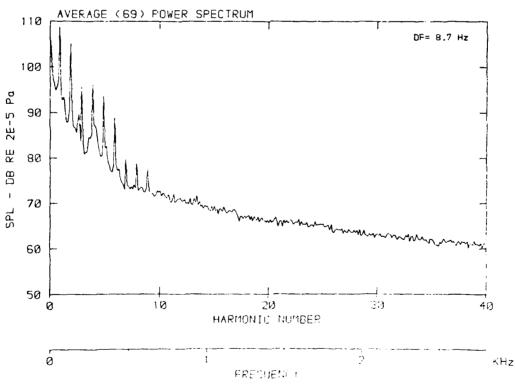
β: 23.7° MH: .6735 n: 2100 rpm γ/μ: .229 φ: -7.4° T: 288.2 K





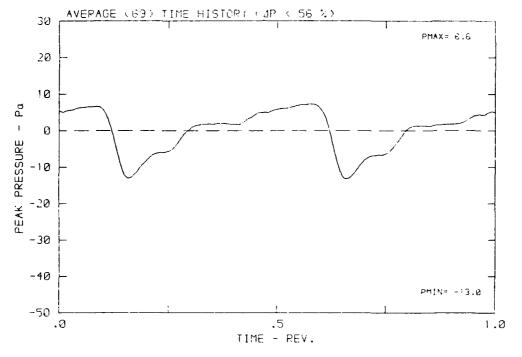
β: 23.7° MH: .6735 h: 2100 rpm V/U: .229 φ: -7.4° T: 288.2 K

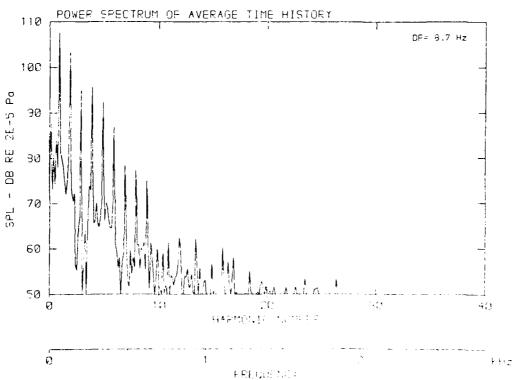




DATA POINT: GM-5 FUM: 143 MF: 5

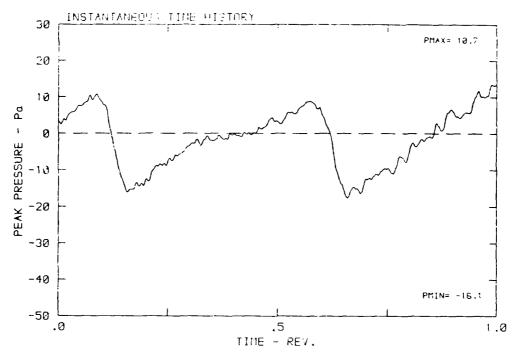
β: 23.7° MH: .6735 n: 2100 rpm ννu: .229 φ: -7.4° 7: 268.2 λ

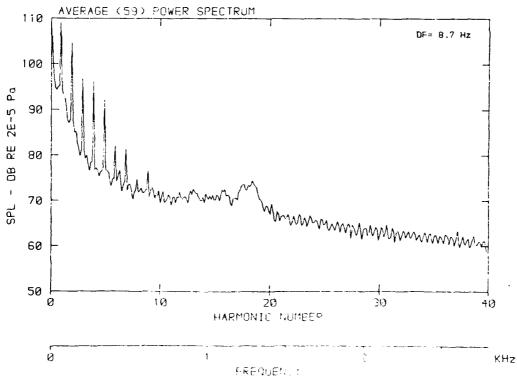




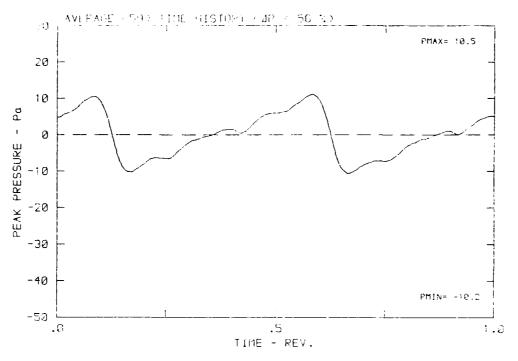
DATA POINT: BM-5 FEN: 148 MF: 3

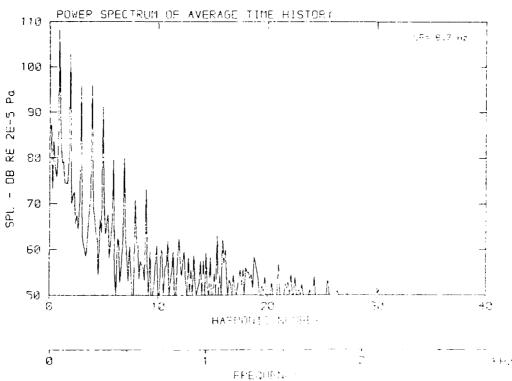
β: 23.7° ΜΗ: .8737 κ: 8100 κρη σκα: .229 φ: -7.4° Γ: 259.2 κ





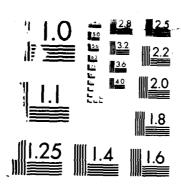
β: 23.7° NH: .6735 n: 2100 rpm γ/u: .229 φ: -7.4° Γ: 288.2 k





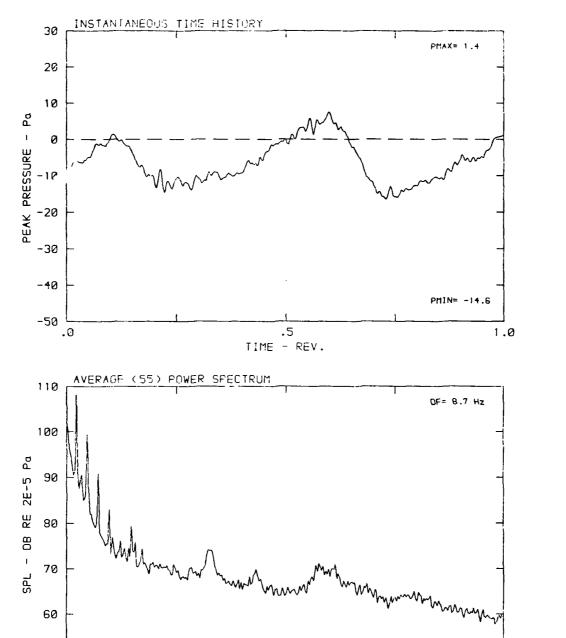
ののでは、一般などのなど、一般などのでは、一般などのなどのである。

DFYLR/FAA (DEUTSCHE FORSCHUNGS-UND VERSUCHSANSTALT FUER LUFT UND RAUMFAHR. (U) DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMF. . N M DOBRZYMSKI ET AL. 1986 F/G 20/1 AD-R174 988 2/6 UNCLASSIFIED NL



TO BELLER RESOLUTION TEST CHART

β: 23.7° MH: .6735 h: 2100 hpm .ru: .229 φ: -7.4° F: 238.2 M



20

HARMONIC NUMBER

FREQUENCY

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KHz

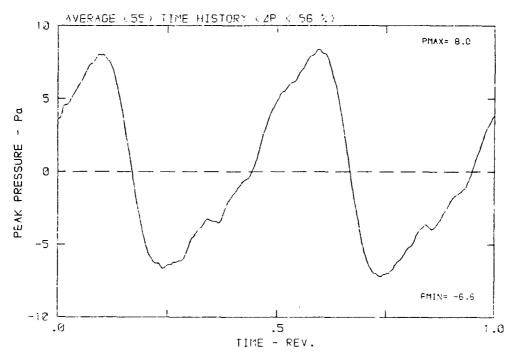
50 F

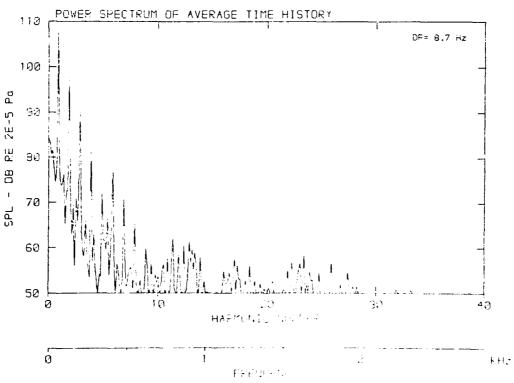
é

10

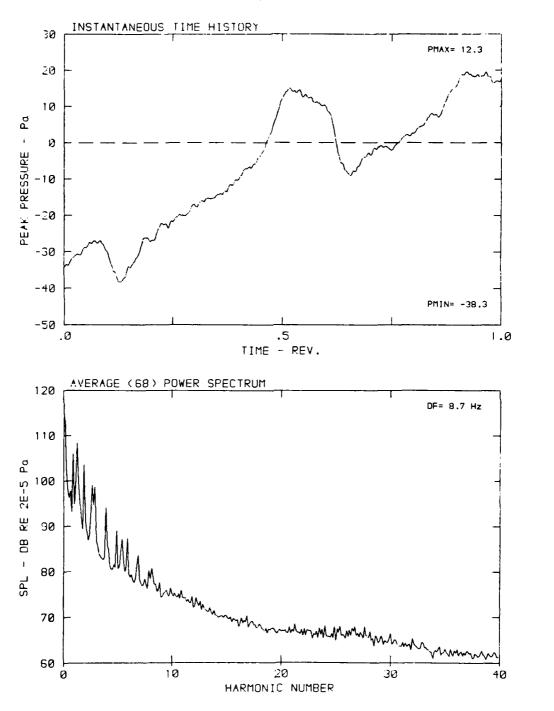
DATA FORMS GN-5 FUN: 149 MP3 7

 $\beta\colon\,23.7^{\circ}$ MH: .6735 n: 2100 npm v/u: .229 $\varphi\colon\,-7.4^{\circ}$ T: 285.2 β





 $\beta\colon 23.7^{o}$ MH: .6735 n: 2100 rpm v/u: .229 o: -7.4° T: 288.2 K



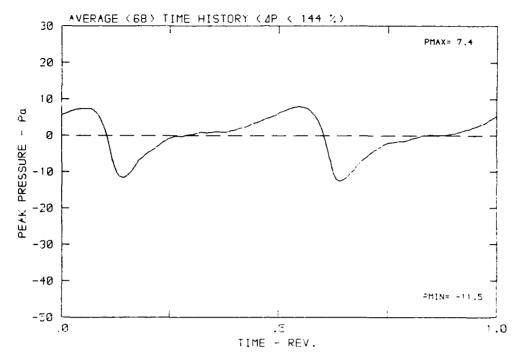
FREQUENCY

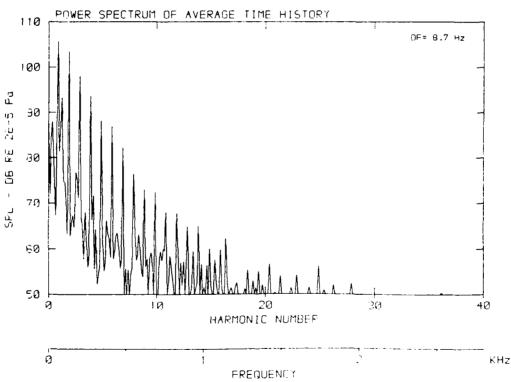
ź

KHz

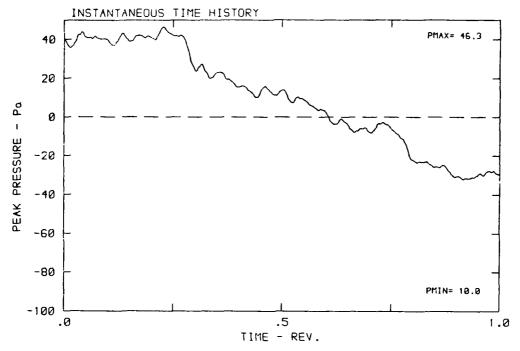
ò

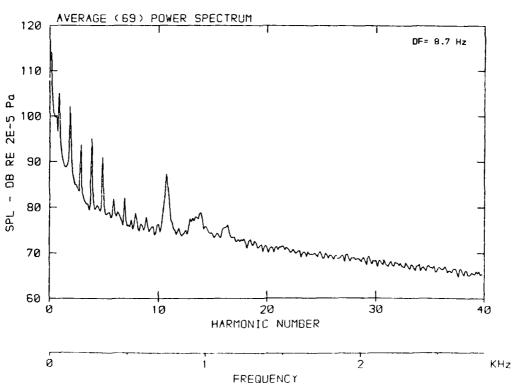
 β : 23.7° MH: .6735 n: 2100 npm v/u: .229 ϕ : -7.4° T: 288.2 K



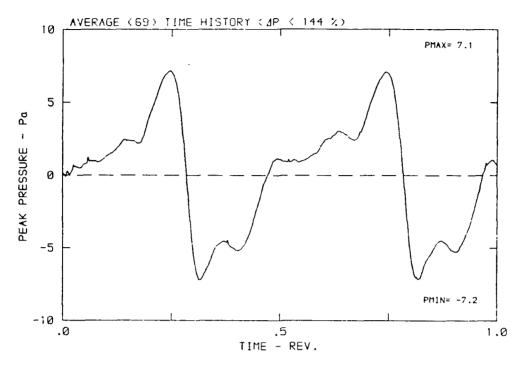


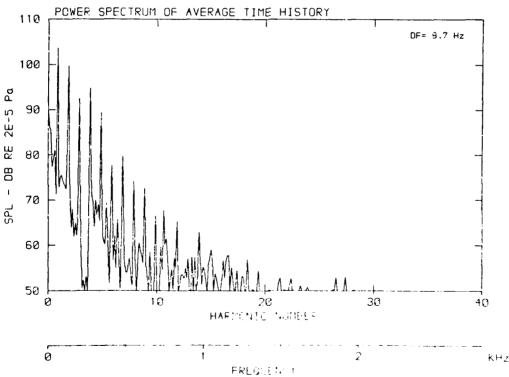
β: 23.7° MH: .6735 n: 2100 rpm ν/u: .229 φ: -7.4° T: 288.2 K





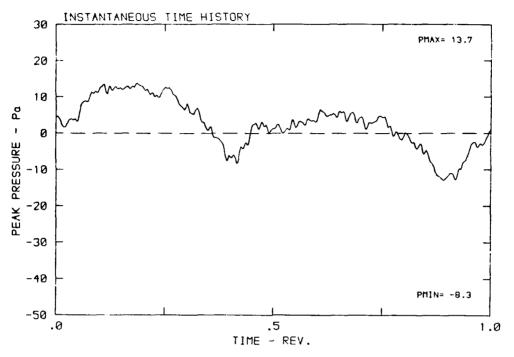
 β : 23.7° MH: .6735 n: 2100 rpm v/u: .229 ϕ : -7.4° T: 288.2 K

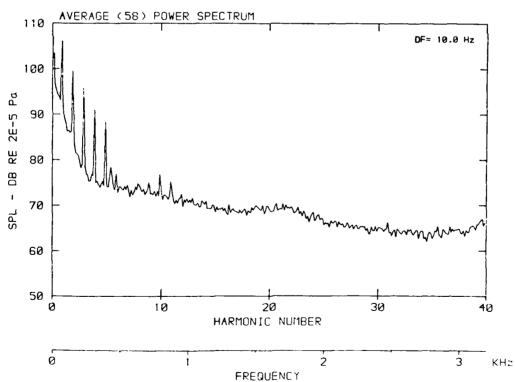




DATA POINT: GN-6 RUN: 150 MP: 1

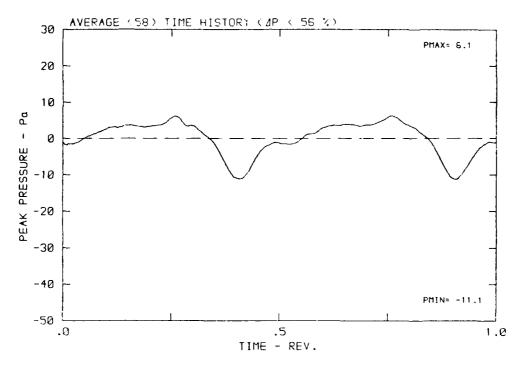
β: 23.7° MH: .7755 n: 2400 rpm v/u: .262 φ: -7.4° T: 288.2 K

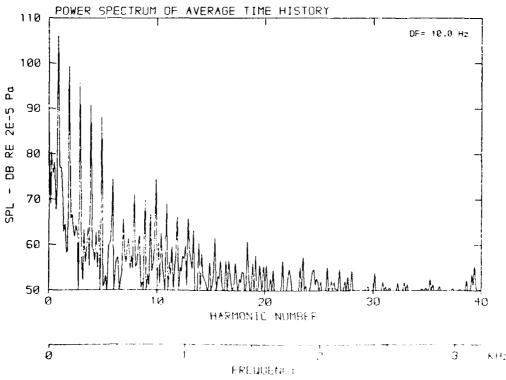




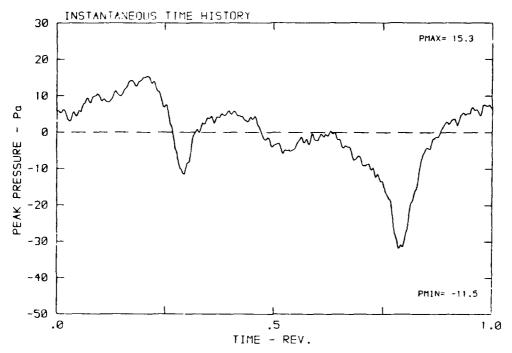
DATA POINT: GN-6 RUN: 150 MP: 1

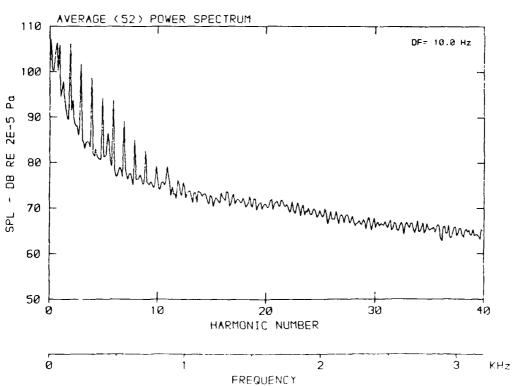
 $\beta\colon 23.7^o$ MH: .7755 n: 2400 npm $\text{ v/u}\colon .262$ $\phi\colon -7.4^o$ T: 288.2 K



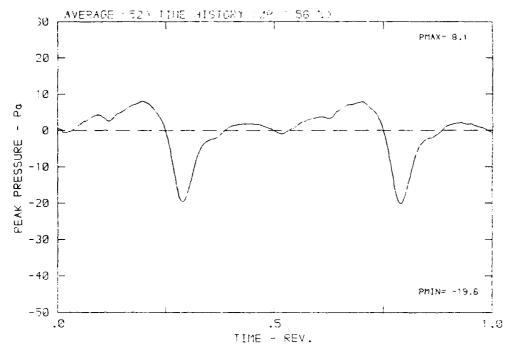


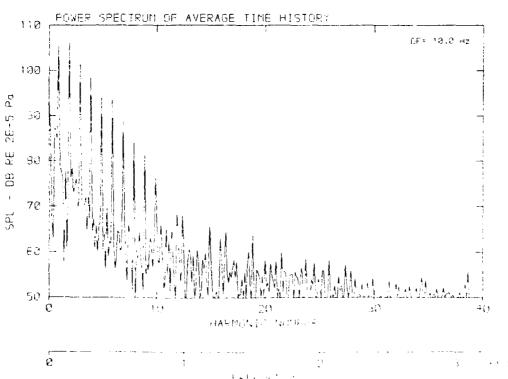
 $\beta\colon 23.7^{\circ}$ MH: .7755 n: 2400 rpm v/u: .262 $\varphi\colon -7.4^{\circ}$ T: 288.2 K



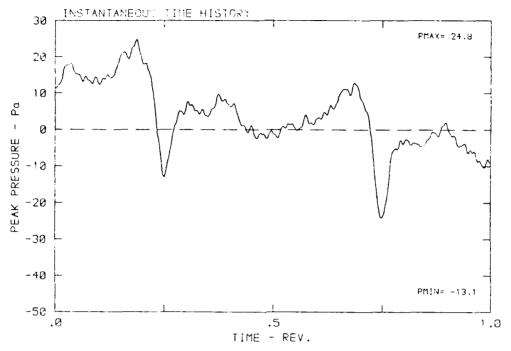


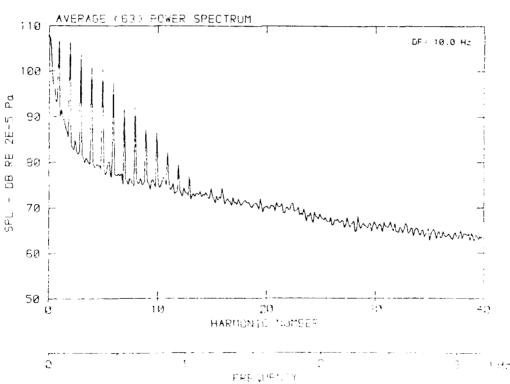
DATA POINT: GNES - PON: 150 - ME;



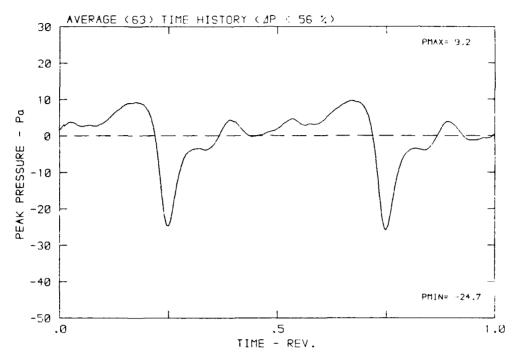


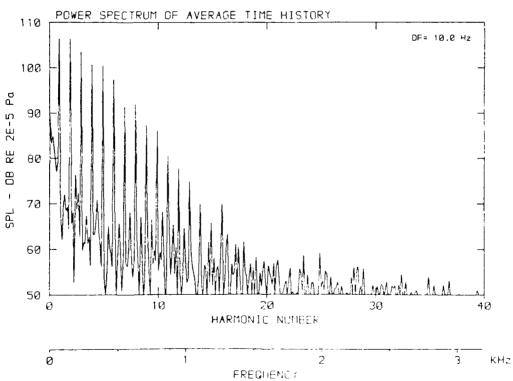
β: 23.7° MH: .7755 n: 2400 rpm \v/u: .262 φ: -7.4° T: 285.2



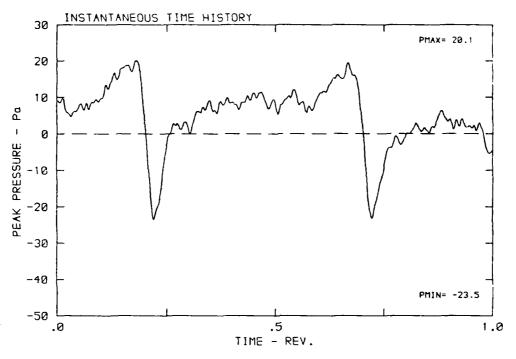


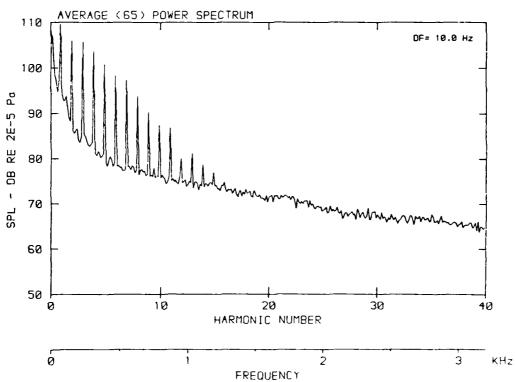
 $\beta\colon\,23.7^{\circ}\,$ MH: .7755 n: 2400 npm v/u: .262 $\varphi\colon\,-7.4^{\circ}\,$ T: 288.2 K



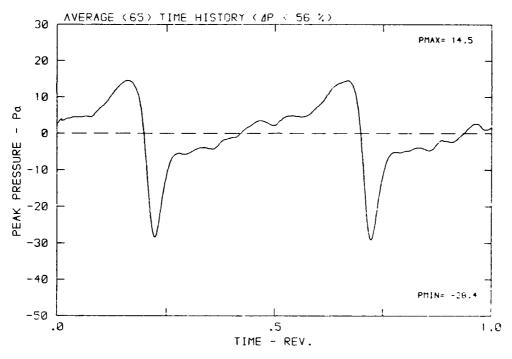


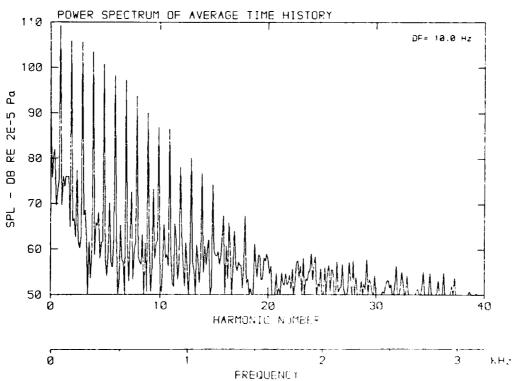
 β : 23.7° MH: .7755 n: 2400 npm v/u: .262 ϕ : -7.4° T: 283.2 K



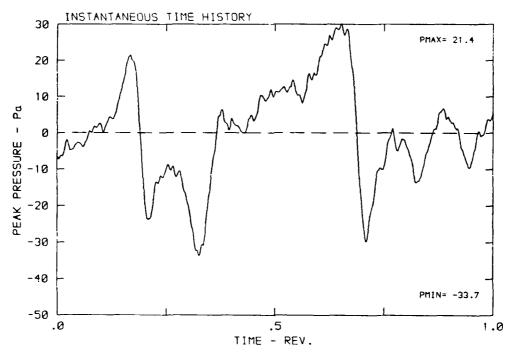


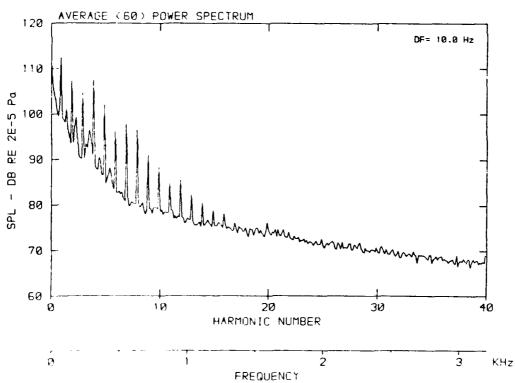
 β : 23.7° MH: .7755 n: 2400 npm v/u: .262 ϕ : -7.4° T: 288.2 K



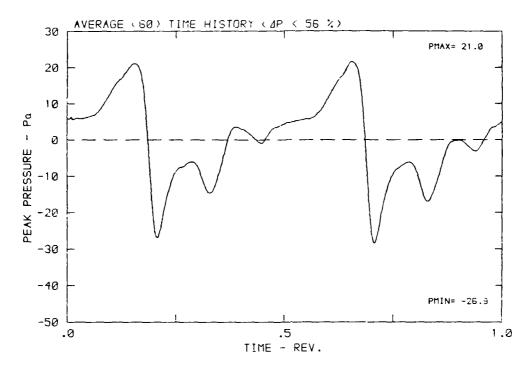


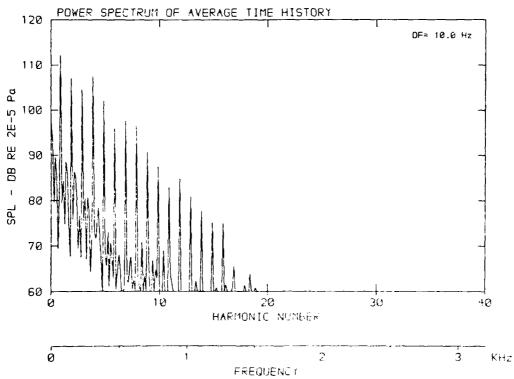
 β : 23.7° MH: .7755 n: 2400 npm v/u: .262 ϕ : -7.4° T: 288.2 K



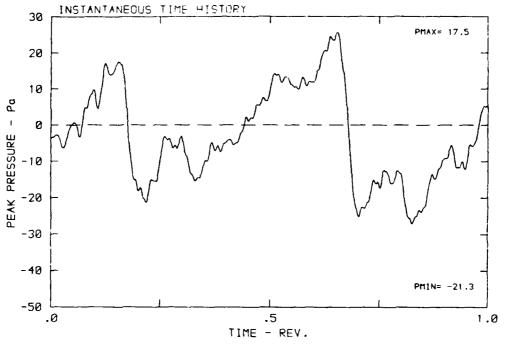


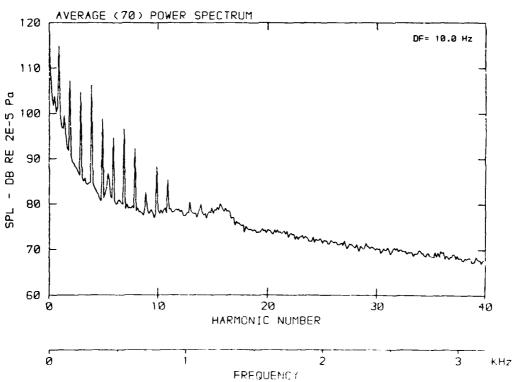
 β : 23.7° MH: .7755 n: 2400 npm v/u: .262 ϕ : -7.4° T: 288.2 K



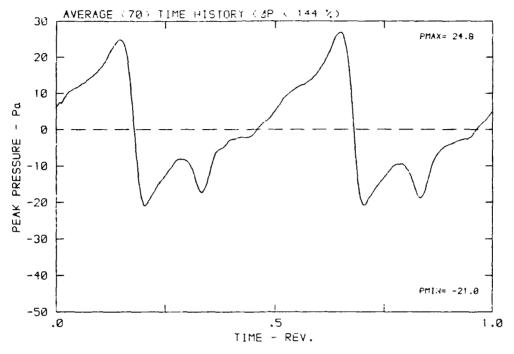


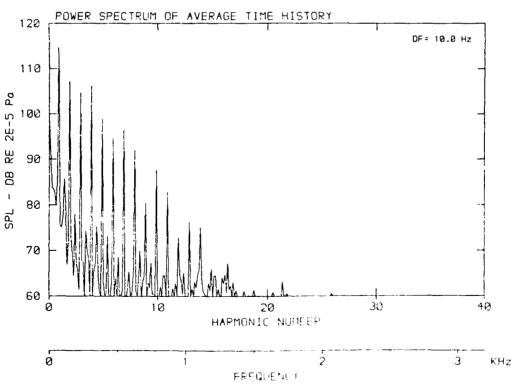
β: 23.7° MH: .7755 n: 2400 rpm v/u: .262 φ: -7.4° T: 288.2 K



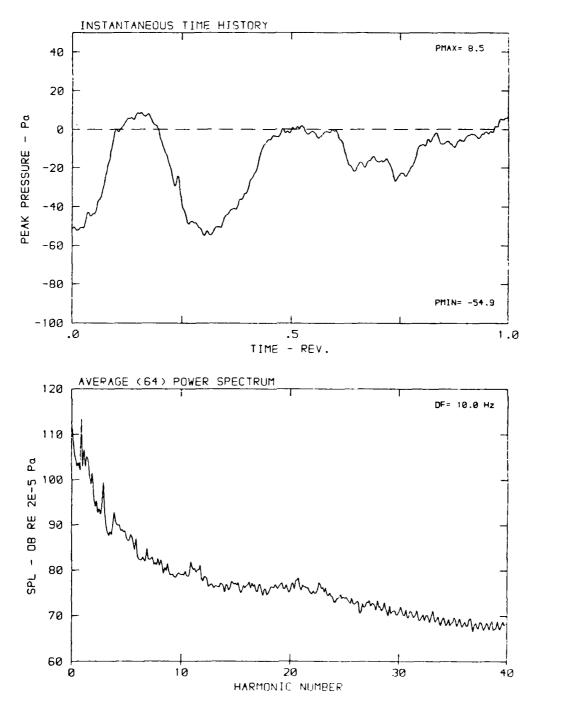


 β : 23.7° MH: .7755 n: 2400 npm v/u: .262 ϕ : -7.4° T: 288.2 κ





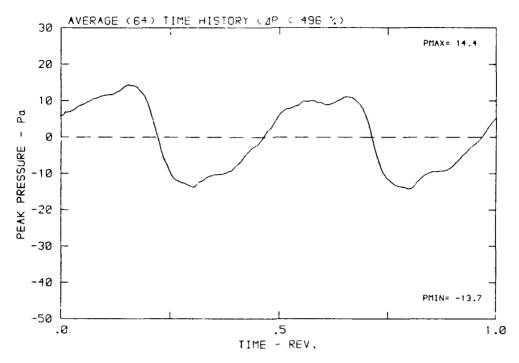
 β : 23.7° MH: .7755 n: 2400 rpm V/V3: .262 ϕ : -7.4° T: 288.2 K

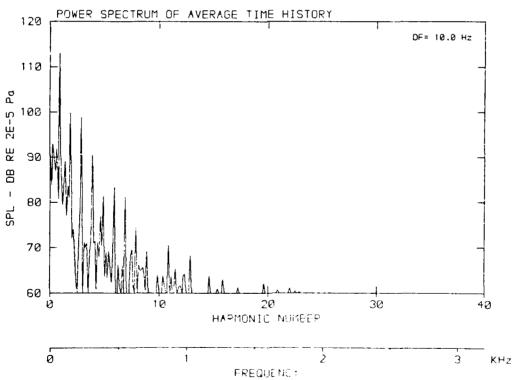


FREQUENCY

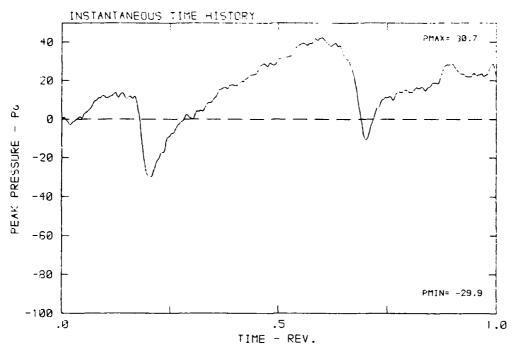
KHz

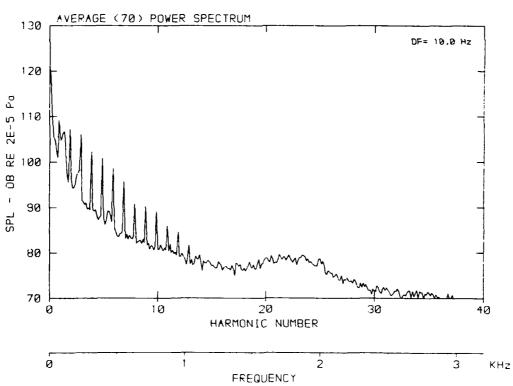
 $\beta\colon\,23.7^{o}\,$ MH: .7755 n: 2400 rpm v/u: .262 $\varphi\colon\,-7.4^{o}\,$ T: 288.2 K



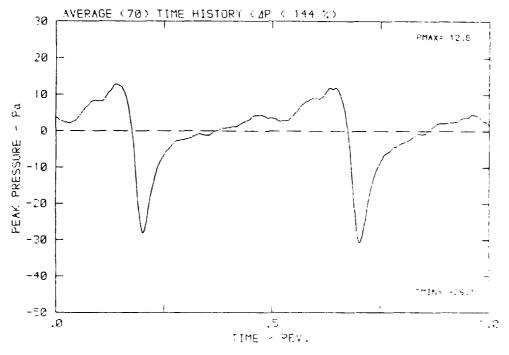


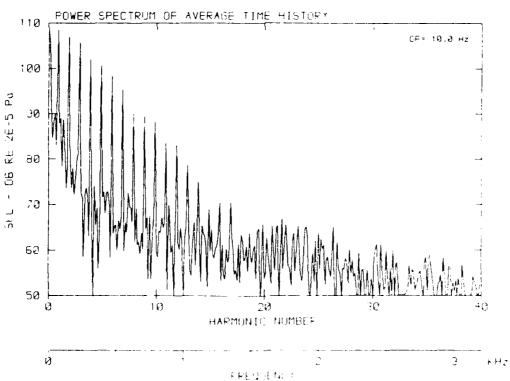
β: 23.7° MH: .7755 n: 1400 npm γ/u: .162 φ: -7.4° T: 188.2 K





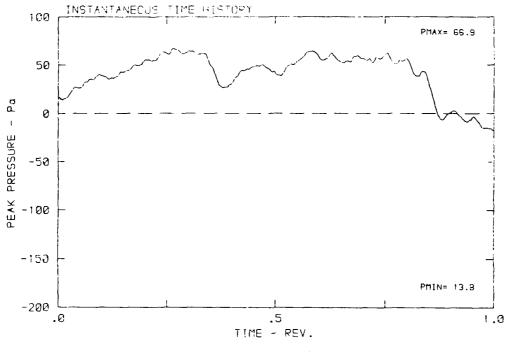
 $\beta\colon\,23.7^{o}$ MH: .7755 n: 2400 npm v/u: .262 $\phi\colon\,-7.4^{o}$ T: 288.2 k

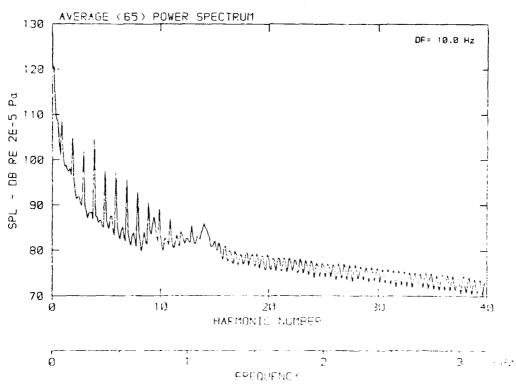




DATA POINT: GN-A RUN: 140 MA: E

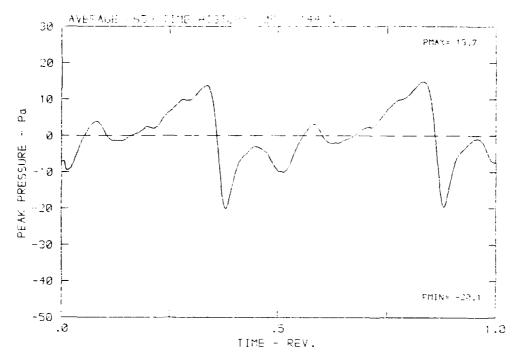
β: 23.7° MH: .7755 n: 2400 apm γ/υ: .262 γ: -7.4° T: 230.0

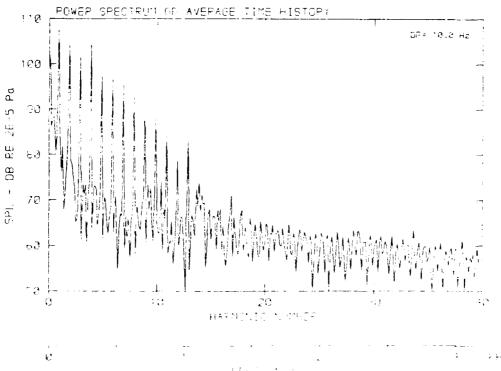




DATA POINT: SHEET FOR SETUPLE THE STATE

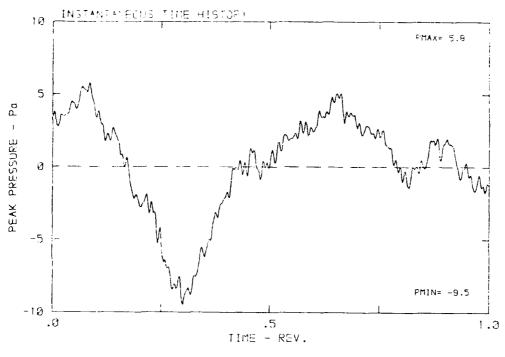
β: 23.7° MH: .7755 h: 2400 mgs $^{-1}$.4: .262 $^{-1}$.7: .8:...

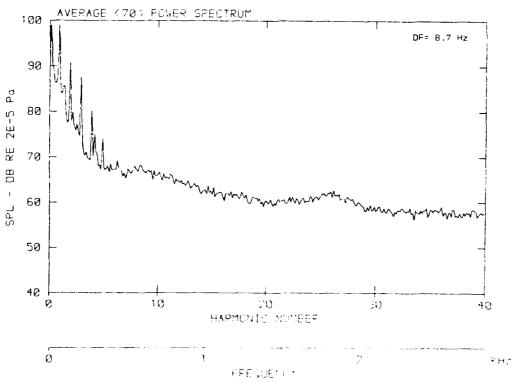




DATA POINT: IN THE RUNG TERMS TO THE

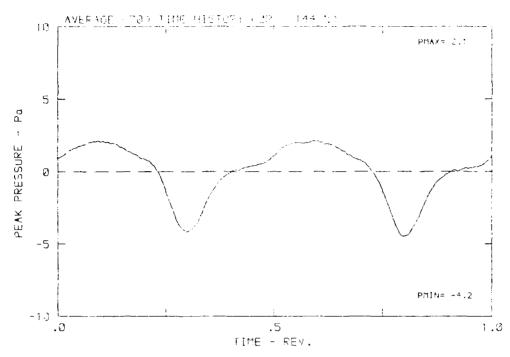
β: 19.9° MH: .8704 (A: 2120 (th. New: .231 (φ: -3.3°)) to 213.3°

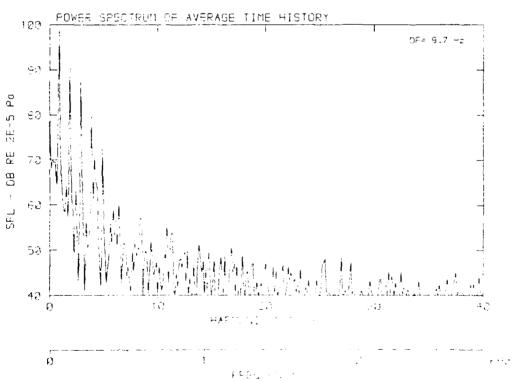




DATA POINT: IN-1 - PANT 154

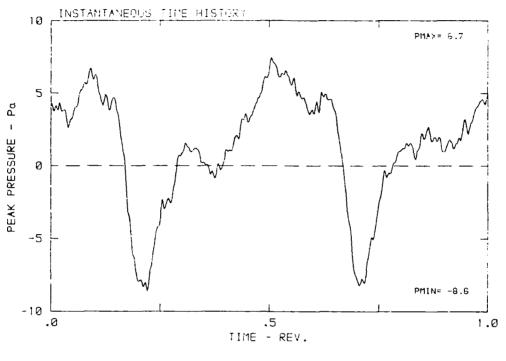
β: 19.9° MH: .8734 h: 2100 mpm . . u: .231 β: -9.3° T: 288.5

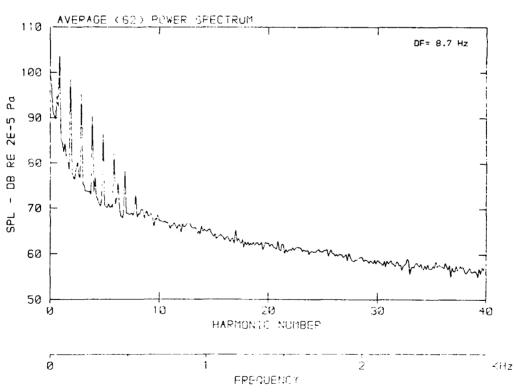




DATA POINT: EM-1 - ROLL TER MERCE

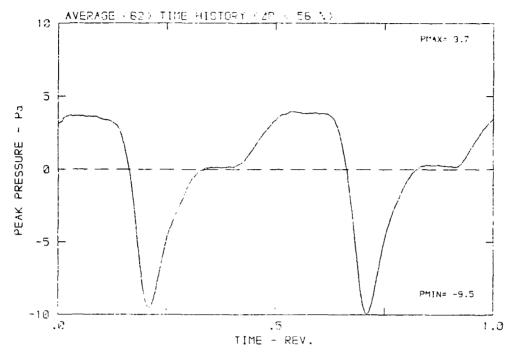
β: 19.9° NH: .6034 n: 2000 apm v u: .121 γ: -3.0° T: 253.5 k

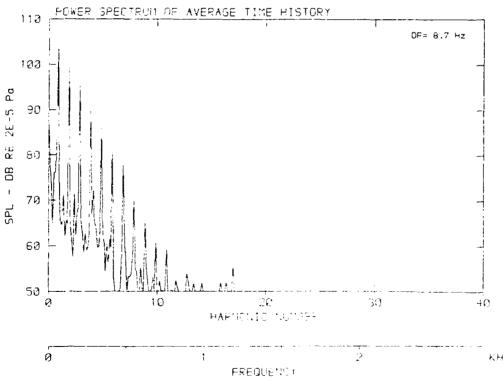




DATA POINT: LN-1 RUN: 154 MF: 1

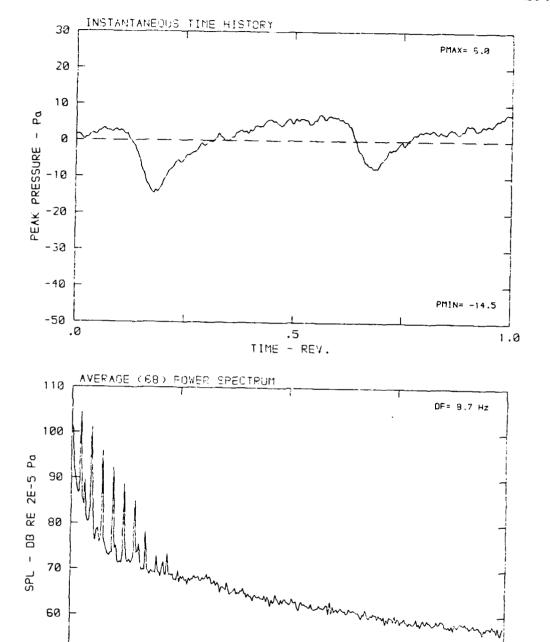
β: 19.3° MH: .6734 n: 2100 npm //u: .231 φ: -3.3° τ: 288.5 %





DATA POINT: LN-1 RUN: 54 MF: 1

β: 19.9° MH: .6734 h: 2100 npm γ/u: .231 φ: -3.9° [: 198.5 /



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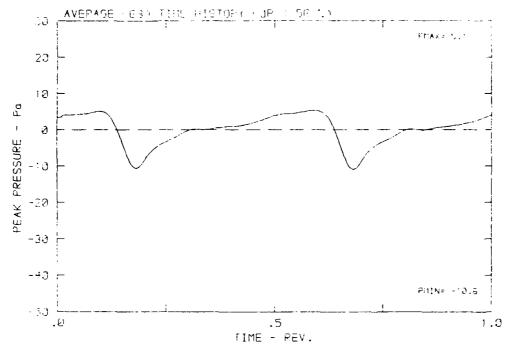
50 F

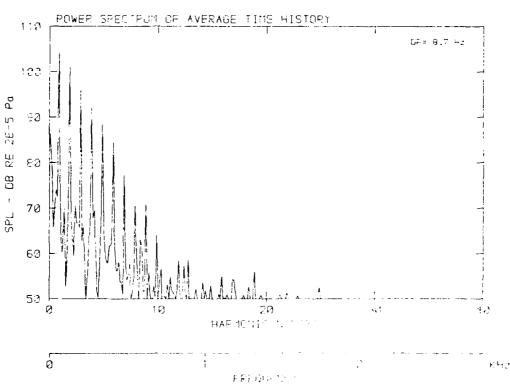
ő

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DATA POINT: LA-1 FUN: 154 MF:

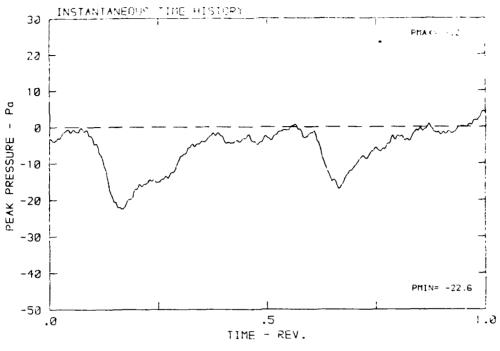
β: 19.5° MH: .8734 h: 2100 npm γ/u: .231 φ: -3.3° 1: 231.5 -

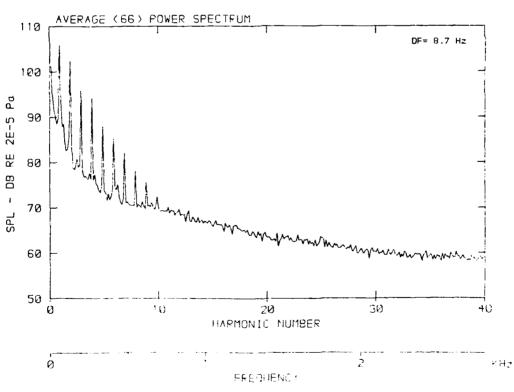




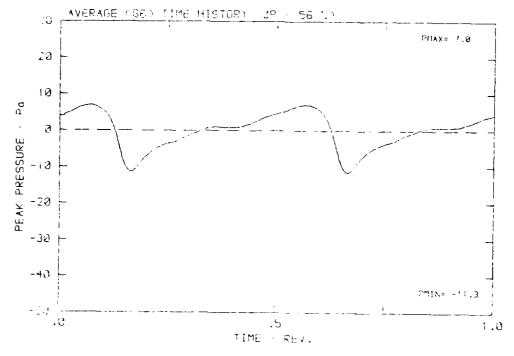
DATA POINT: Chair Brown Date Market

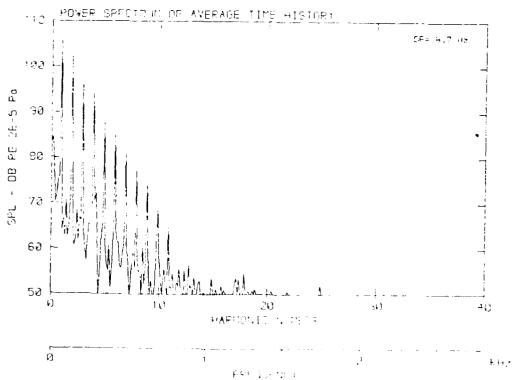
β: 19.9° MH: .8734 on: 2100 Mgr on a: .210 D: --.-- 1: 2 9.7





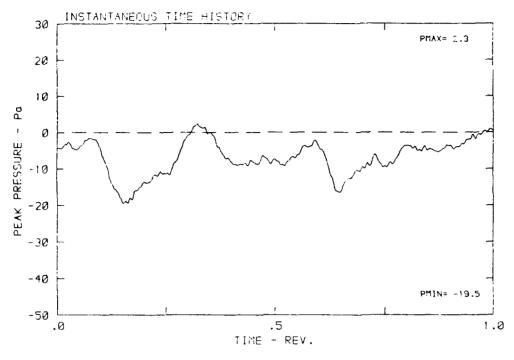
שני 19.3" אוו: .5734 און 2100 rpm שני ב.פיל לא האלי אוון "פ. 19.3" אווי ב.פיל אווי ב.פיל אווי שני 19.3" אווי ב

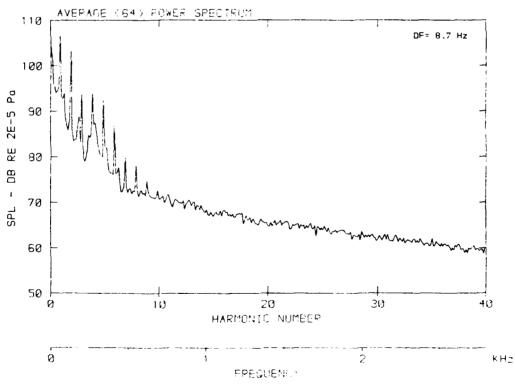




DATA POINT: LN-1 FUN: 194 MP: 3

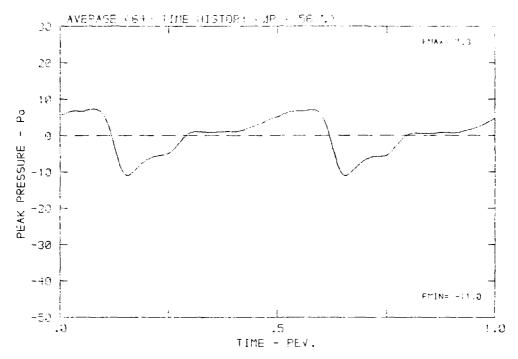
β: 19.9° MH: .6734 n: 2100 npm (Pu: .201 β: -3.8° F: 288.5

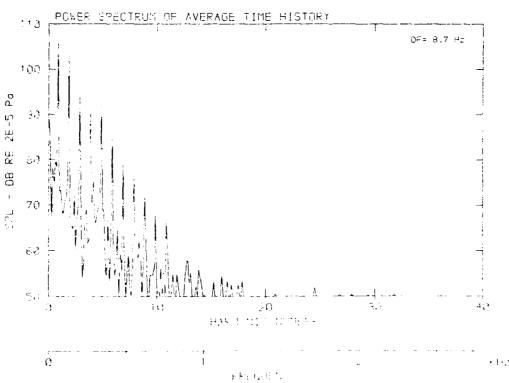




DATA POINT: LN-1 FUN: 154

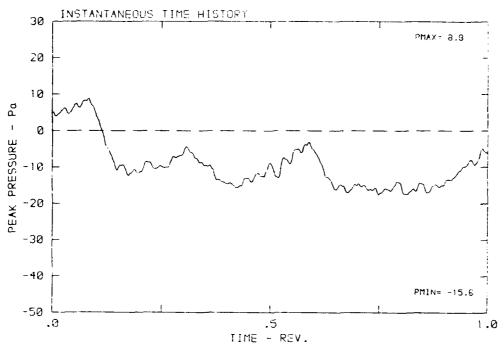
8: 19.9° MH: .5734 n: 2100 npm ...u: .231 1: 3.5° 1: /344.

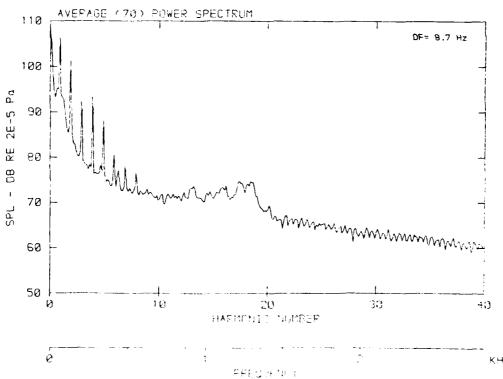




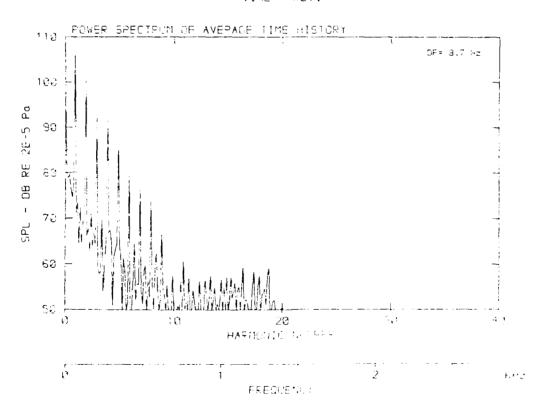
DATA POINT: LN-1 RON: 150 1781

β: 19.9° NH: .6734 n: 2100 npm \ u: .231 \ \ \ : -3.8° \ \ : 288.5 \ \



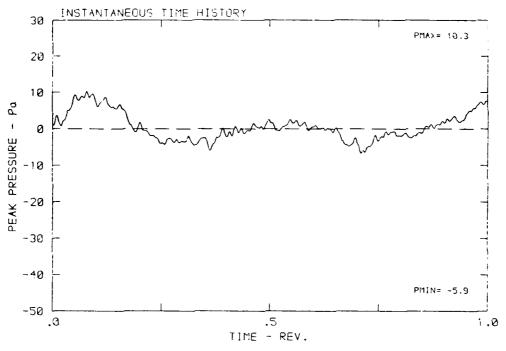


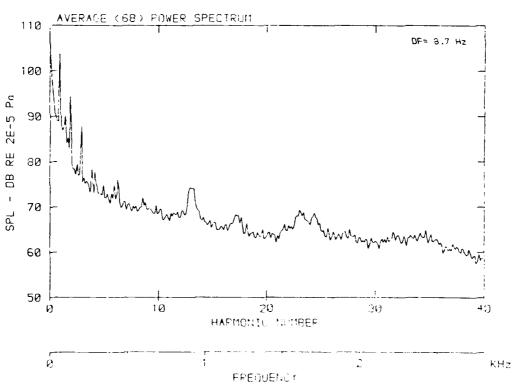
DATA POINT: 2, -1 - 15 15 15 15 16 17 18 18 19.5° π. 19.



DATA POINT: LN-1 RUN: 154 MP: T

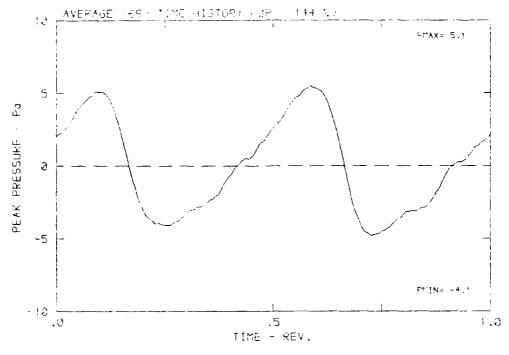
β: 19.9° MH: .6734 h: 2100 npm .ru: ,231 ψ: -3.8° T: 288.5 k

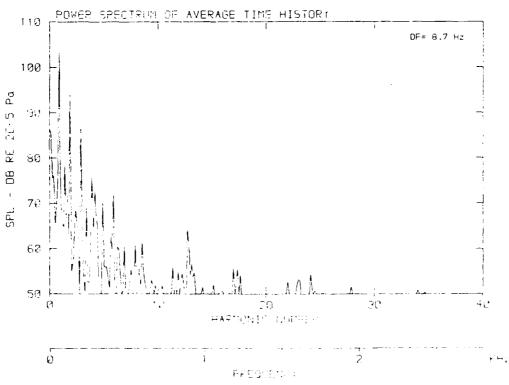




DATA POINT: LN-1 - FON: 154 - 141

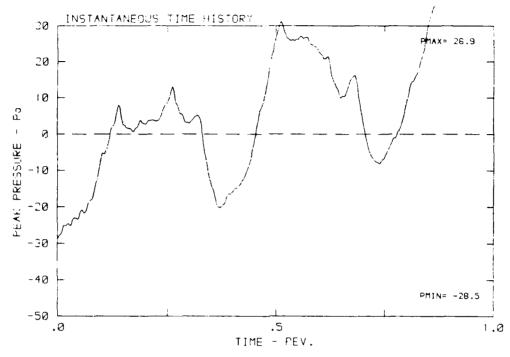
р: 19.5° мн: .673+ м: 2180 грм у и: .231 р: на.8° Т: 898.3

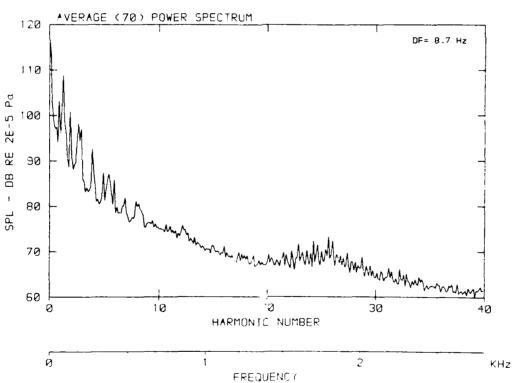




DATA POINT: LN-1 RUN: 154 MP: 8

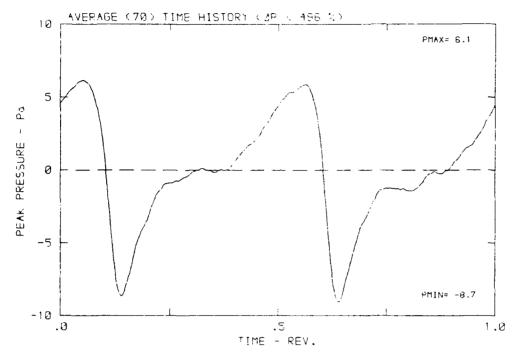
р: 19.3° МН: .6734 n: 2100 rpm v/u: ,231 Ф: -3.8^{щ/}Т: 288.5 К

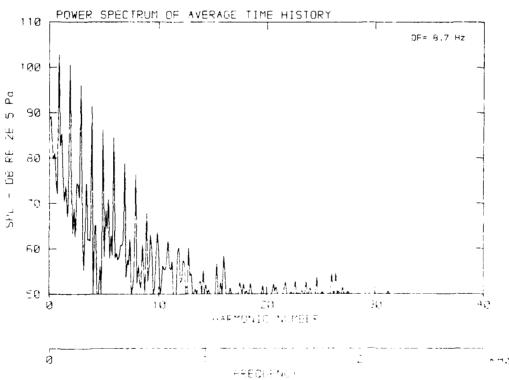




DATA POINT: LN-1 RUN: 154 MP: 8

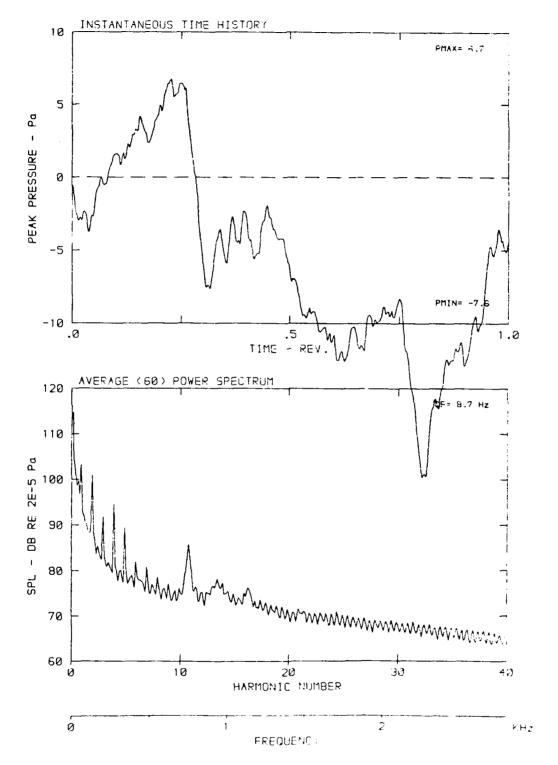
β: 19.9° MH: .6734 n: 2100 npm v/u: .231 φ: -3.8° T: 288.5 K





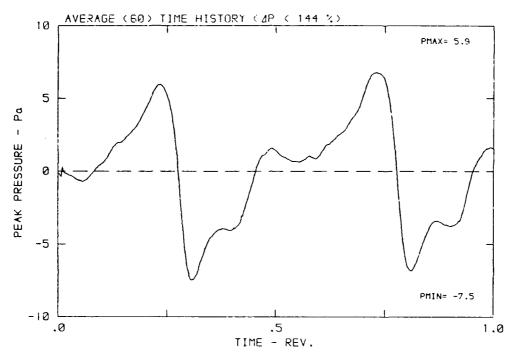
DATA POINT: IN-1 RIM: 15- ME:

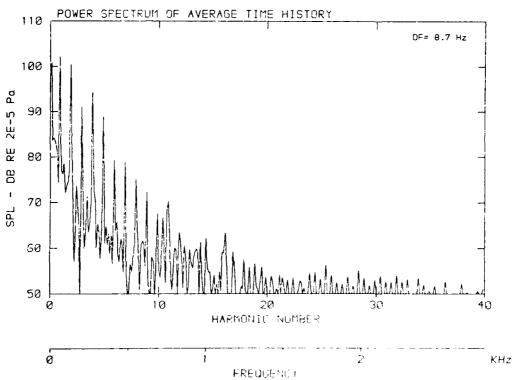
β: 19.9° MH: .6734 n: 2100 npm - v/u: .231 ο: -3.5° 1: 238.5 /



DATA POINT: LN-1 RUN: 154 MP: 9

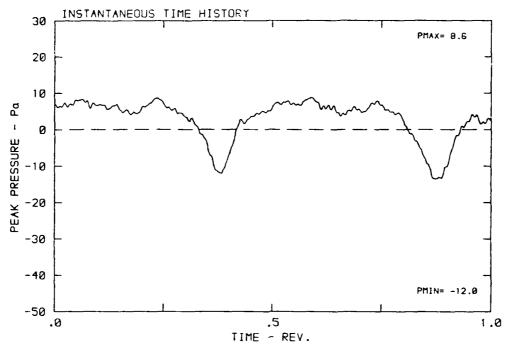
 β : 19.9° MH: .6734 n: 2100 npm v/u: .231 ϕ : -3.8° T: 288.5 K

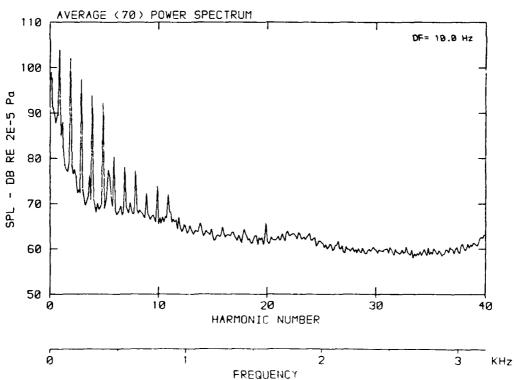




DATA POINT: LN-2 RUN: 155 MP: 1

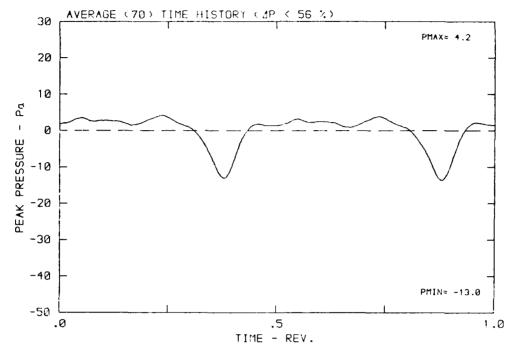
β: 19.9° MH: .7645 n: 2400 rpm ν/u: .202 φ: -3.8° T: 288.9 K

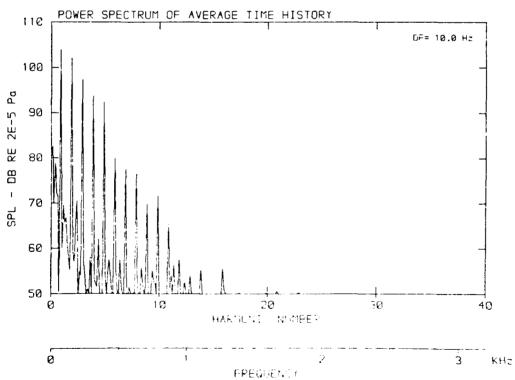




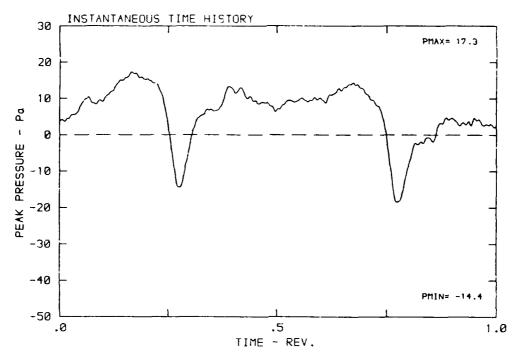
DATA POINT: LN-2 RUN: 155 MP: 1

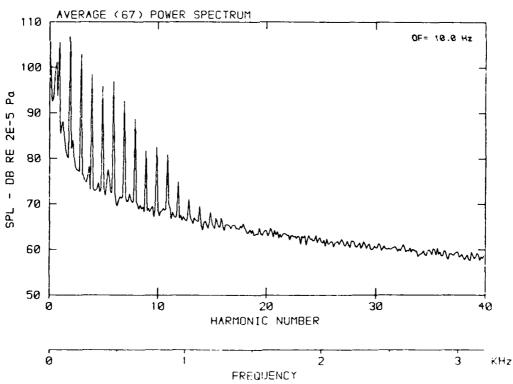
 $\beta: 19.9^{\circ}$ MH: .7645 n: 2400 npm $\text{ v/u: .202 } \phi: -3.8^{\circ}$ T: 288.9 K





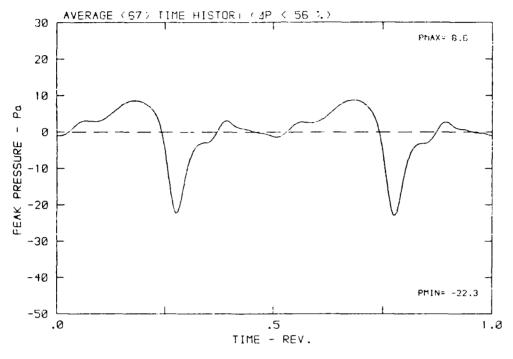
 β : 19.9° MH: .7645 n: 2400 npm v/u: .202 ϕ : -3.8° T: 288.9 K

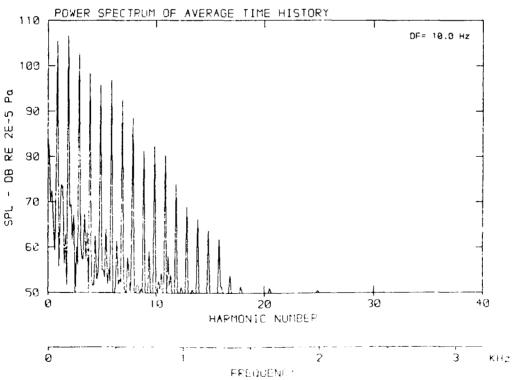




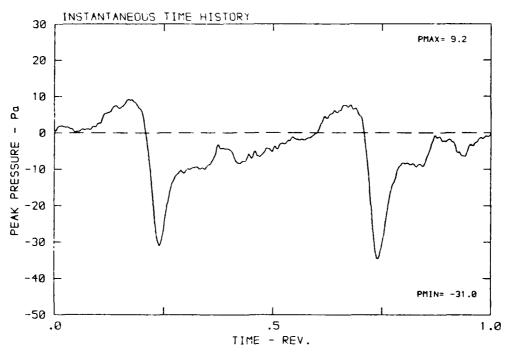
adada bidibara sekasek okaseksis

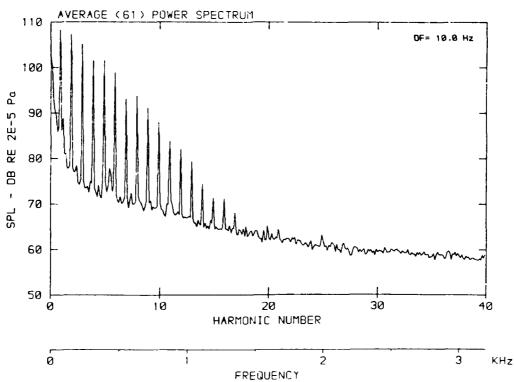
 $\beta\colon\,19.9^{0}\,$ MH: .7645 n: 2400 rpm v/u: .202 $\varphi\colon\,-3.8^{0}\,$ T: 288.9 K



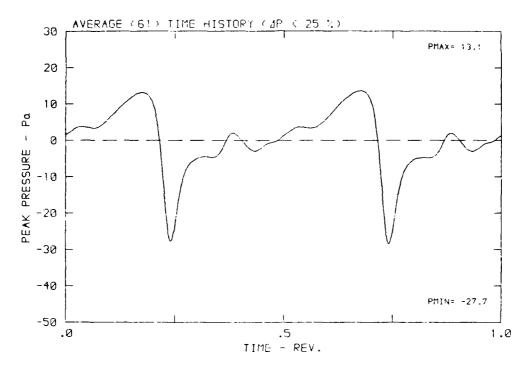


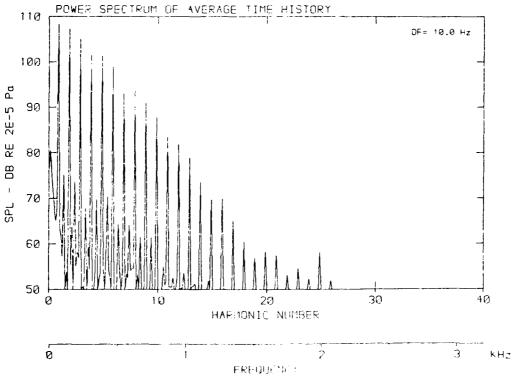
 $\beta\colon\,19.9^{\circ}\,$ MH: .7645 n: 2400 npm $\,$ v/u: .202 $\,$ $\varphi\colon\,-3.8^{\circ}\,$ T: 288.9 K



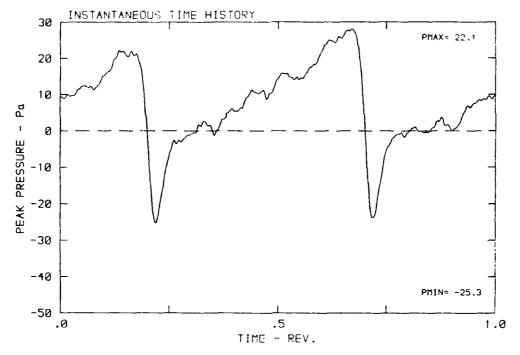


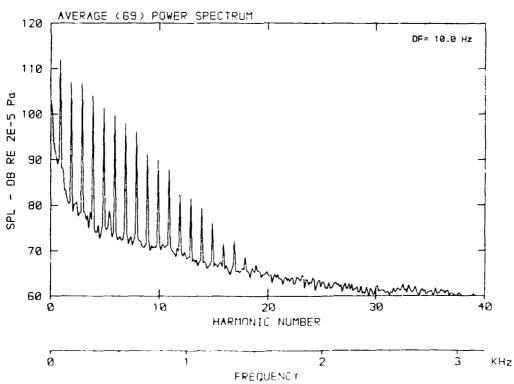
 β : 19.9° MH: .7645 n: 2400 npm V/U: .202 ϕ : -3.8° T: 283.9 K



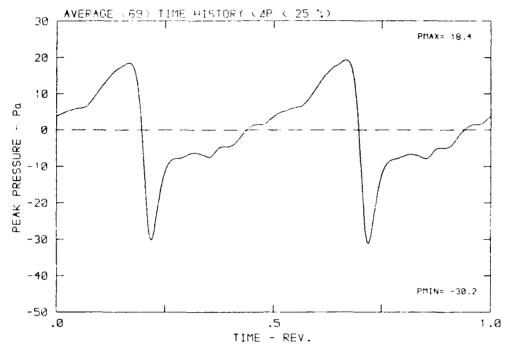


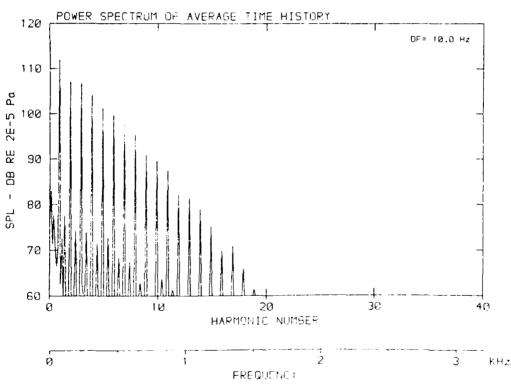
 β : 19.9° MH: .7645 n: 2400 npm v/u: .202 ϕ : -3.8° T: 288.9 K



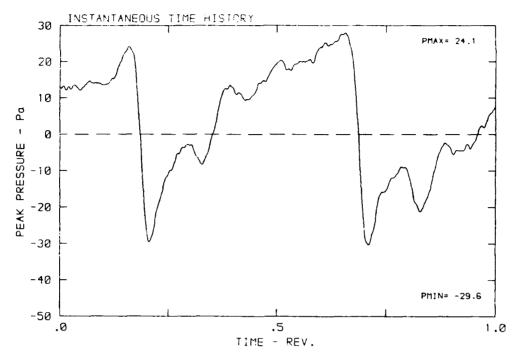


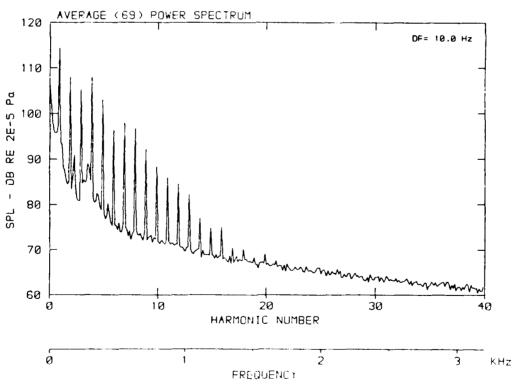
 β : 19.9° MH: .7645 n: 2400 npm v/u: .202 ϕ : -3.8° T: 288.9 K





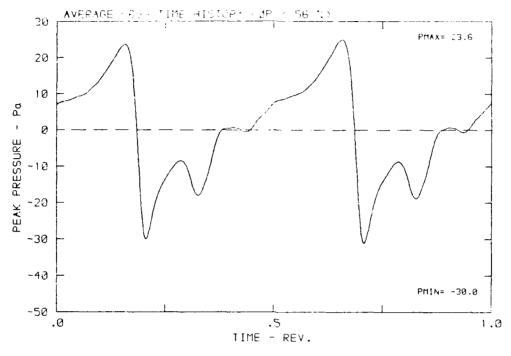
β: 19.9° MH: .7645 n: 2400 rpm ./u: .202 φ: -3.8° T: 288.9 K



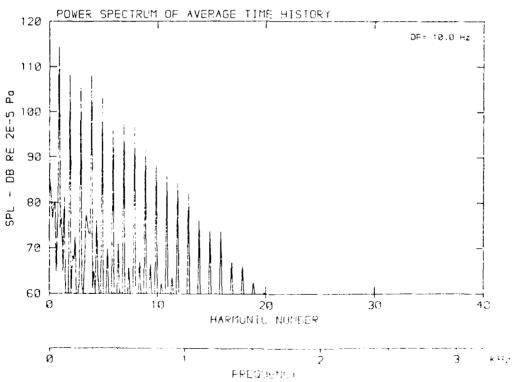


DATA POINT: UN-D R N. 15- MF : 5

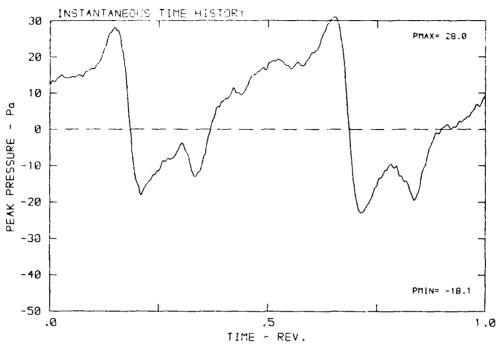
β: 19.9° MH: .7645 n: 2400 npm |: .202 | þ: -3.8° | 1: 288.9 k

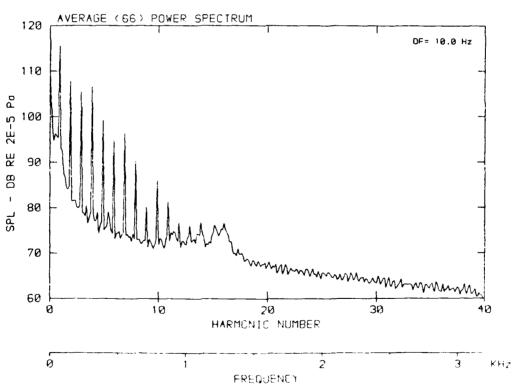


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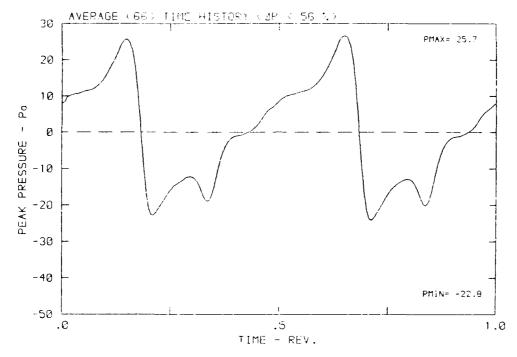


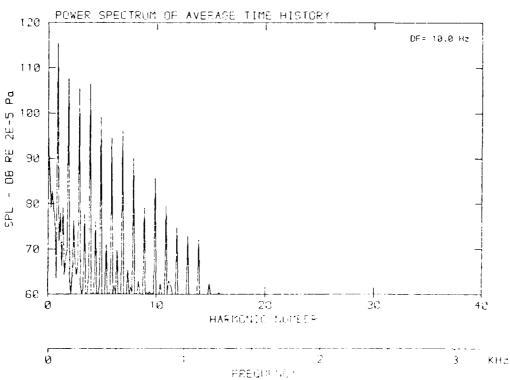
β: 19.9° MH: .7645 n: 2400 npm V/u: .202 $\text{ }\phi$: -3.8° T: 288.9 K



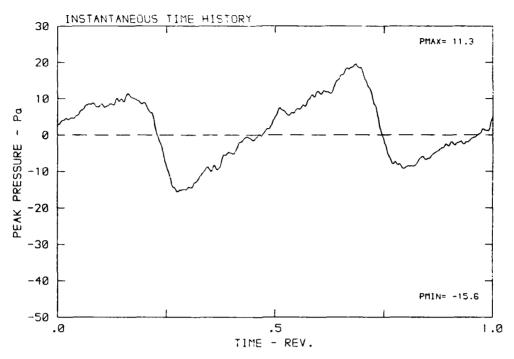


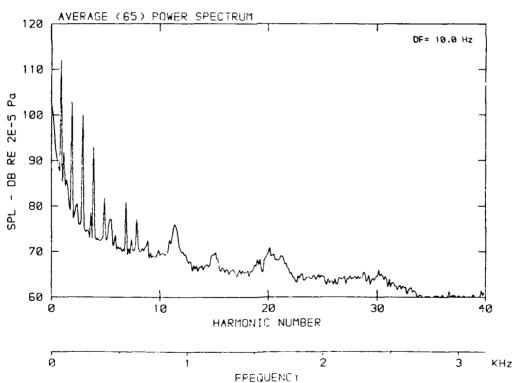
 β : 19.9° MH: .7645 n: 2400 npm v/u: .202 ϕ : -3.8° T: 285.9 k



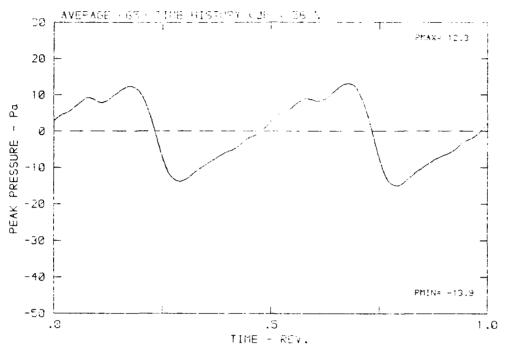


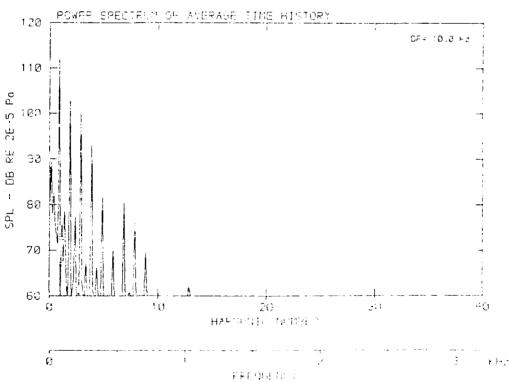
β: 19.9° MH: .7645 n: 2400 κpm v/u: .202 ψ: -3.8° T: 285.9 K



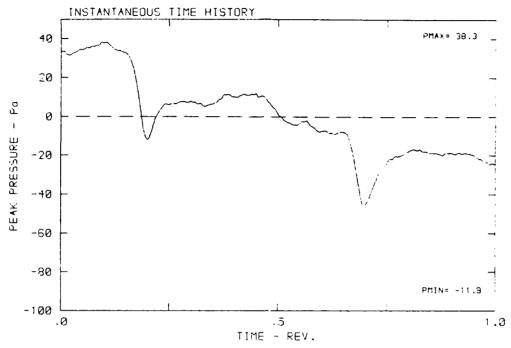


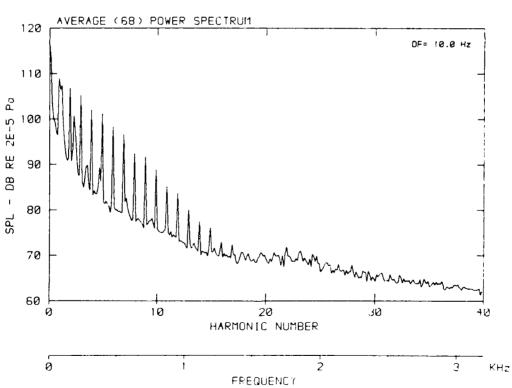
β: 13.3° MH: .7645 h: 2400 rgm / hu: .202 J: 3.3° T: 253.3





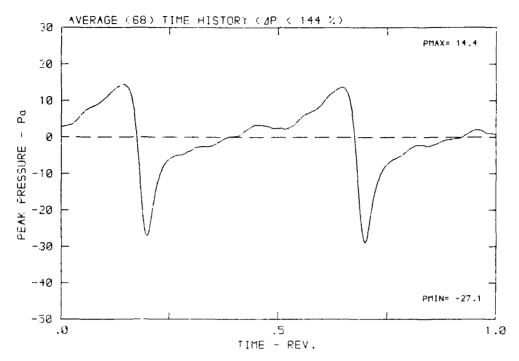
β: 19.9° MH: .7645 n: 2400 npm γ/μ: .202 φ: -3.8° Τ: 288.3 K

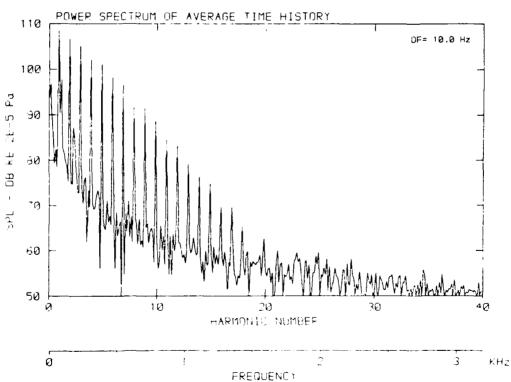




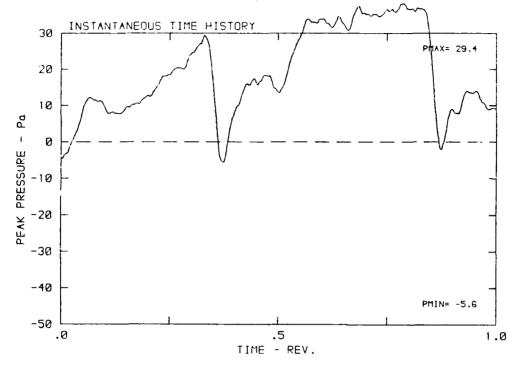
SSIME CONSISTANT ACCOUNTS TO STAND

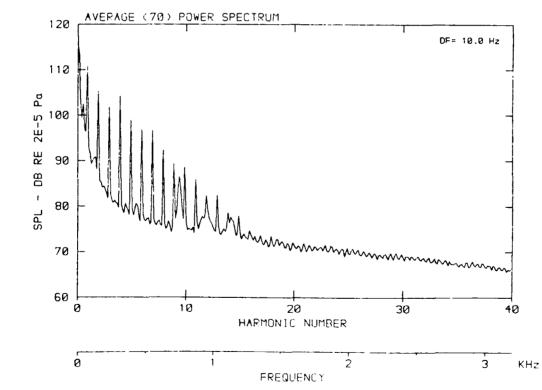
 β : 19.9° MH: .7645 n: 2400 rpm v/u: .202 ϕ : -3.8° τ : 288.9 K



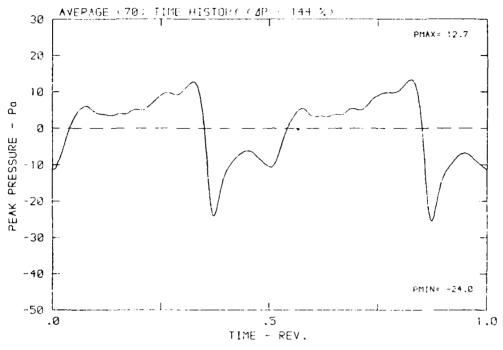


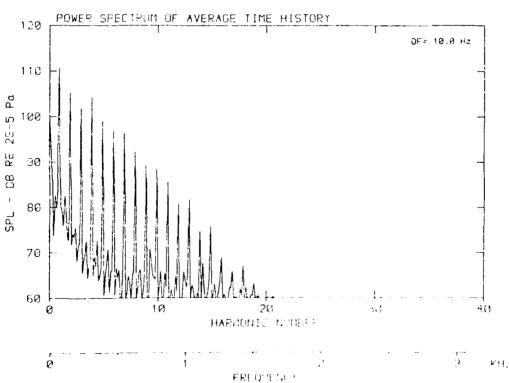
 β : 19.9° MH: .7645 n: 2400 rpm v/u: .202 ϕ : -3.8° T: 288.9 K



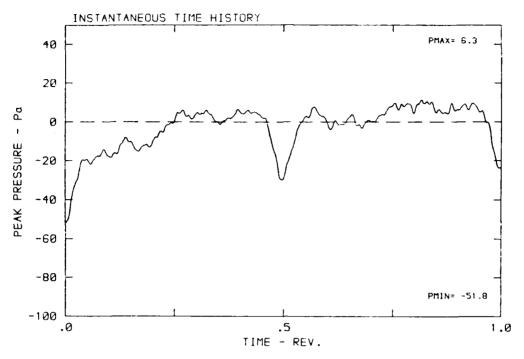


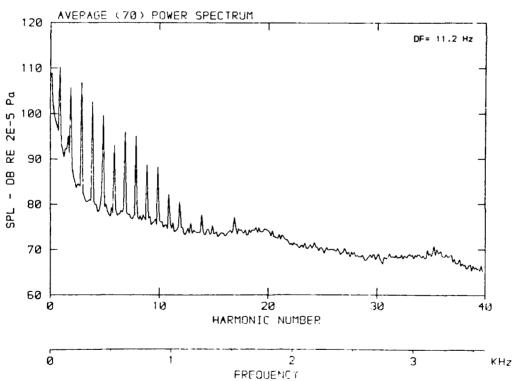
 β : 19.9° MH: .7645 n: 2400 npm v = v = .202 ϕ : -3.8° T: 288.9 K



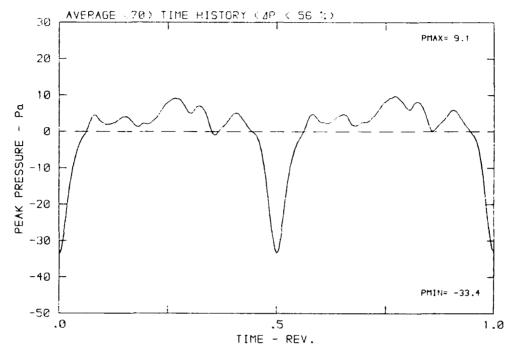


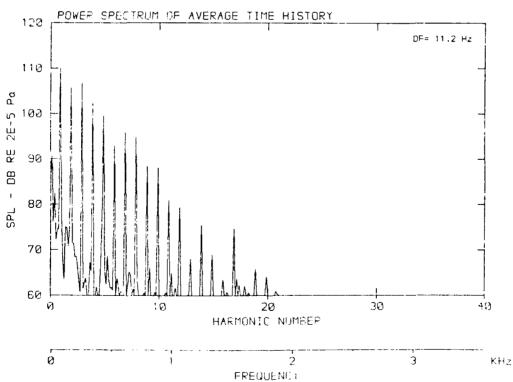
β: 19.9° MH: .8727 n: 2700 npm v/u: .263 φ: -3.8° T: 288.3 K



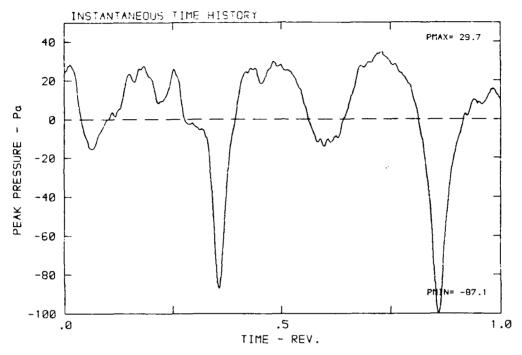


 $\beta\colon\,19.9^{o}\,$ MH: .8727 n: 2700 npm $\,$ v/u: .268 $\,$ $\psi\colon\,-3.8^{o}\,$ T: 288.9 K

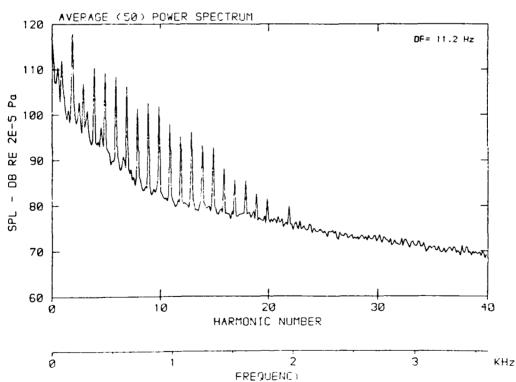




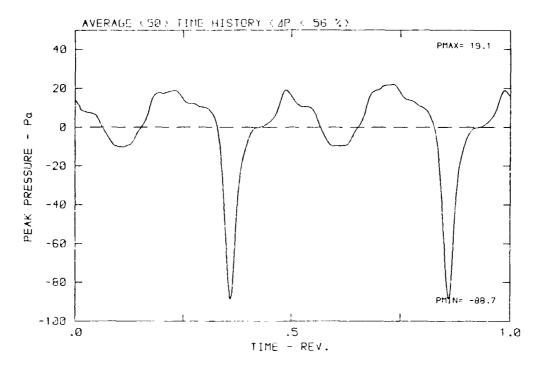
β: 19.9 MH: .8727 n: 2700 ppm v/u: .268 φ: -3.8 Γ: 298.9 K

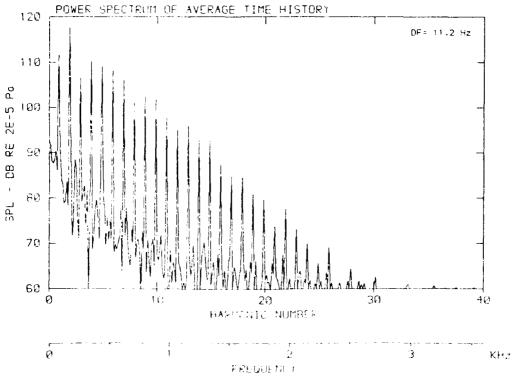


appropriate supplied assistance with the popular technical

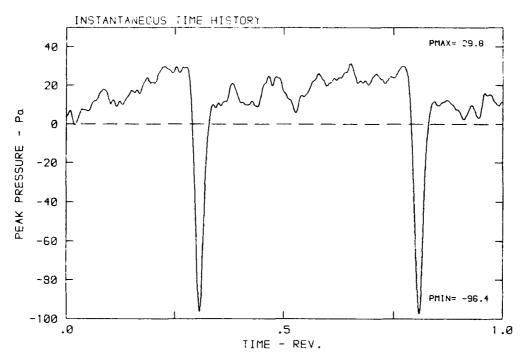


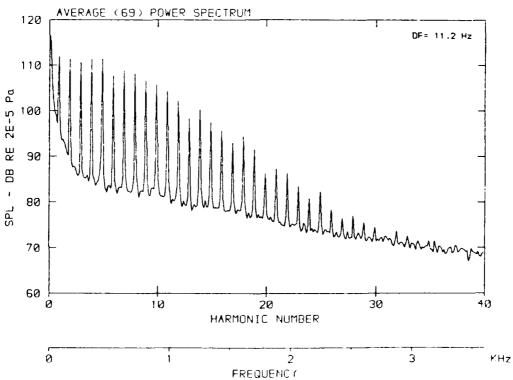
β: 19.3° MH: .8727 n: 2700 rpm v/u: .268 φ: -3.8° T: 288.9 κ



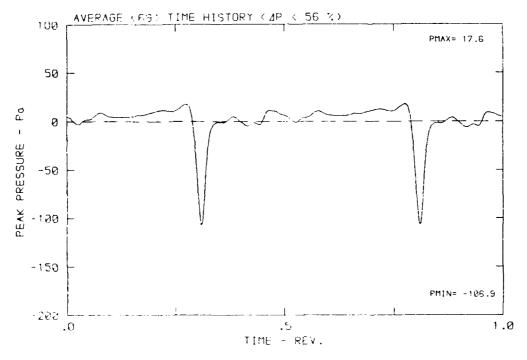


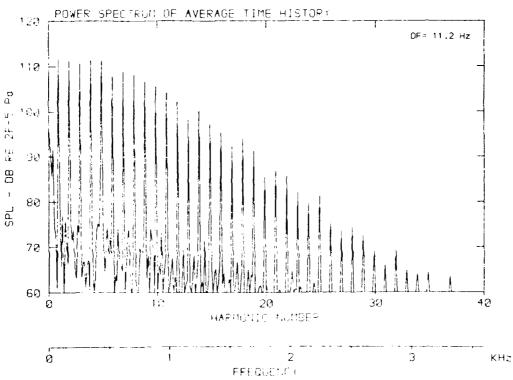
 $\beta\colon\,19.9^{\circ}\,$ MH: .8727 n: 2700 npm v/u: .268 $\varphi\colon\,+3.8^{\circ}\,$ T: 286.9 K



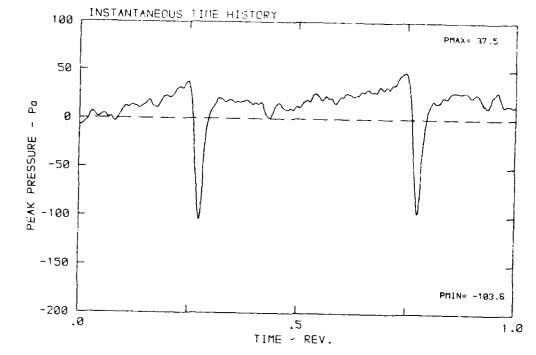


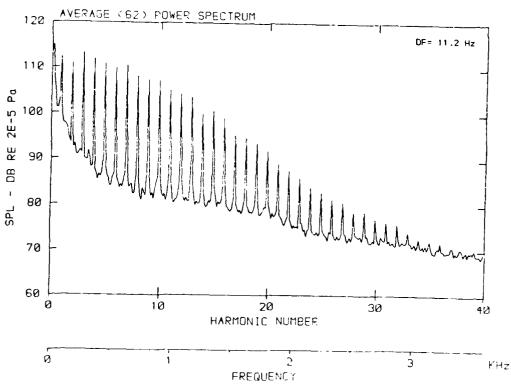
 β : 19.9° MH: .8727 n: 2700 npm V/u: .268 ϕ : -3.8° T: 288.9 K



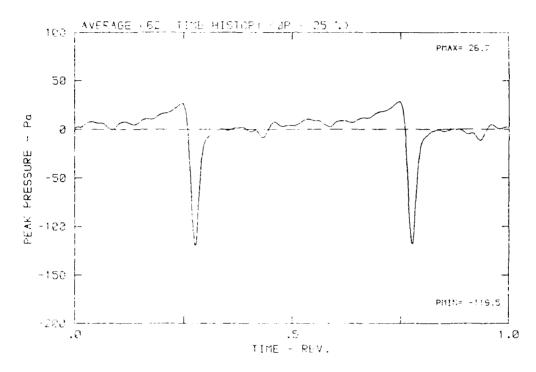


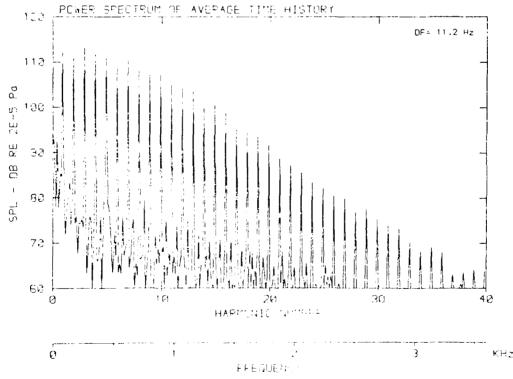
β: 19.9° MH: .8727 h: 2700 npm γ/u: .265 γ: -3.3° Τ: 288.3 κ



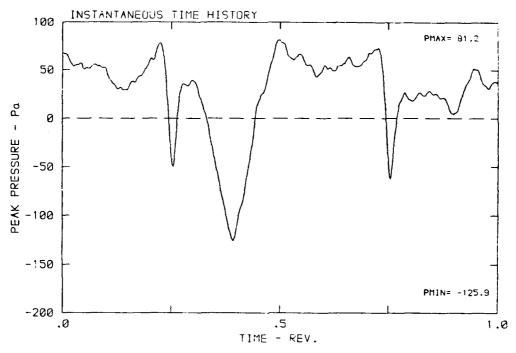


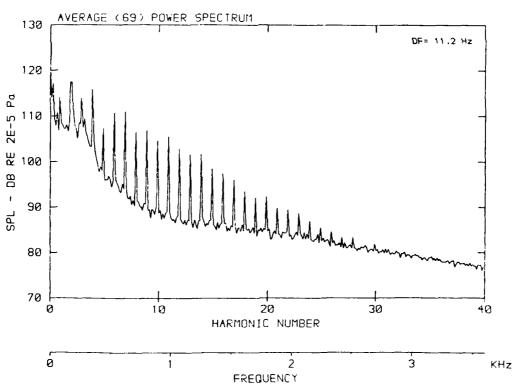
β: 19.9° MH: .8737 n: 2700 rpm vou: .268 φ: -3.8° T: 258.9 k





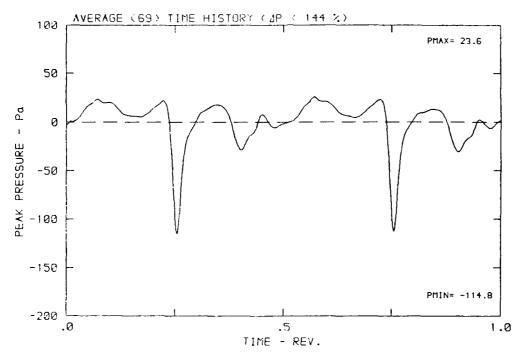
 β : 19.9° MH: .8727 n: 2700 rpm v/u: .268 ϕ : -3.8° T: 288.9 K

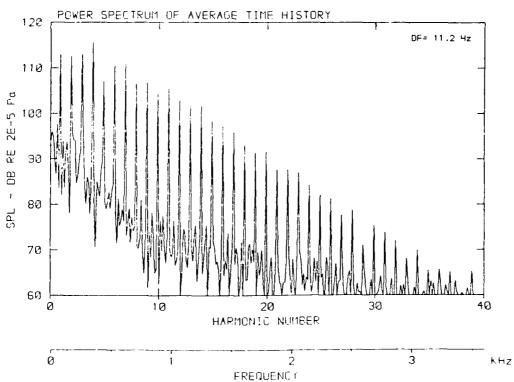




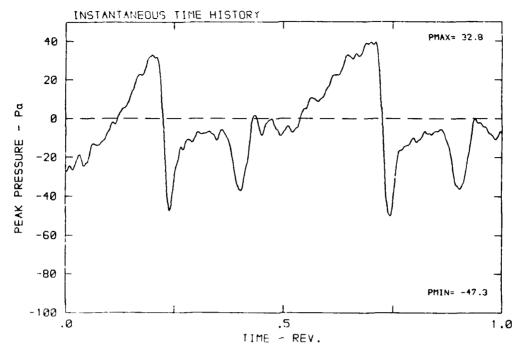
では、こととの関係を対している。

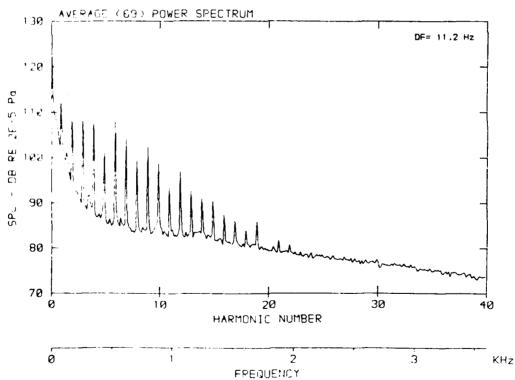
 β : 19.9° MH: .8727 n: 2700 rpm v/u: .268 ϕ : -3.8° T: 288.9 K





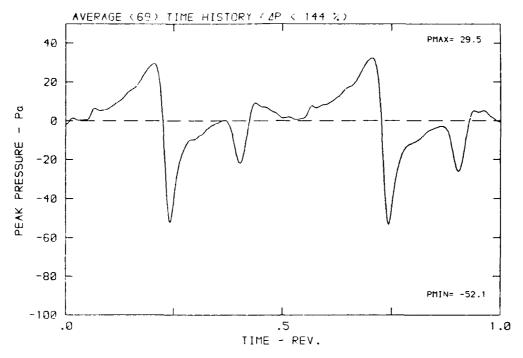
 β : 19.9° MH: .8727 n: 2700 npm v/u: .268 ϕ : -3.8° T: 283.9 K

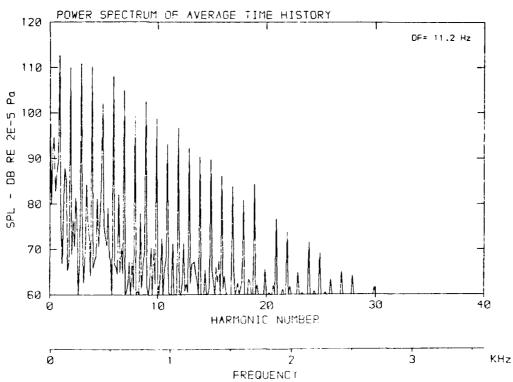




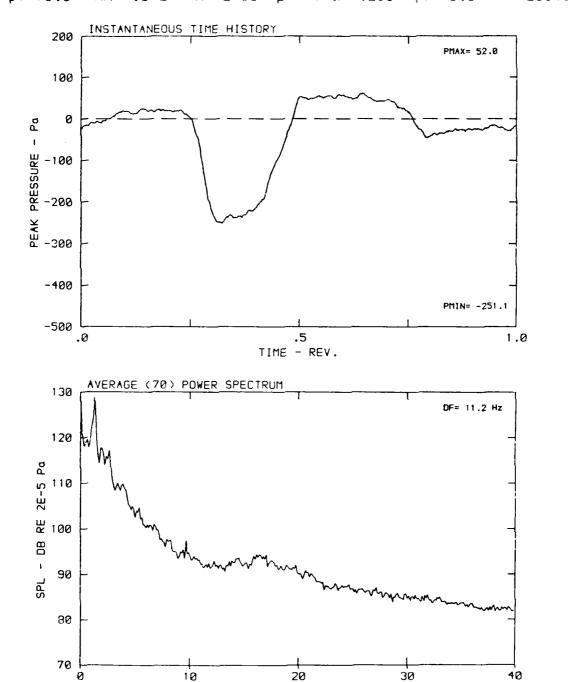
SCHOOL CONCRETE CONCRETE SERVICE

 $\beta\colon\,19.9^{o}$ MH: .8727 n: 2700 npm v/u: .268 $\varphi\colon\,-3.8^{o}$ T: 288.9 K





β: 19.9° MH: .8727 n: 2700 rpm ν/u: .268 φ: -3.8° T: 288.9 K

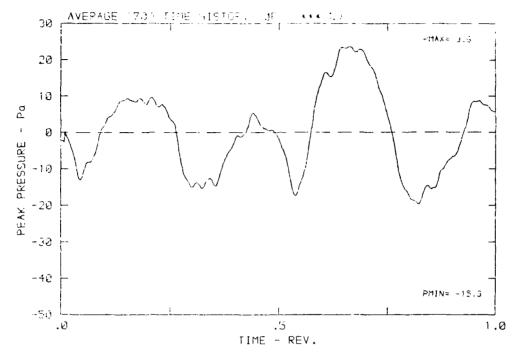


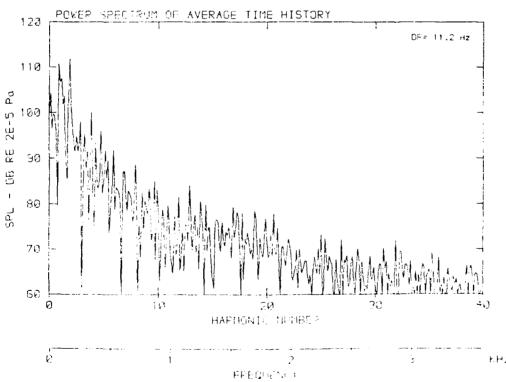
HARMONIC NUMBER

FREQUENCY

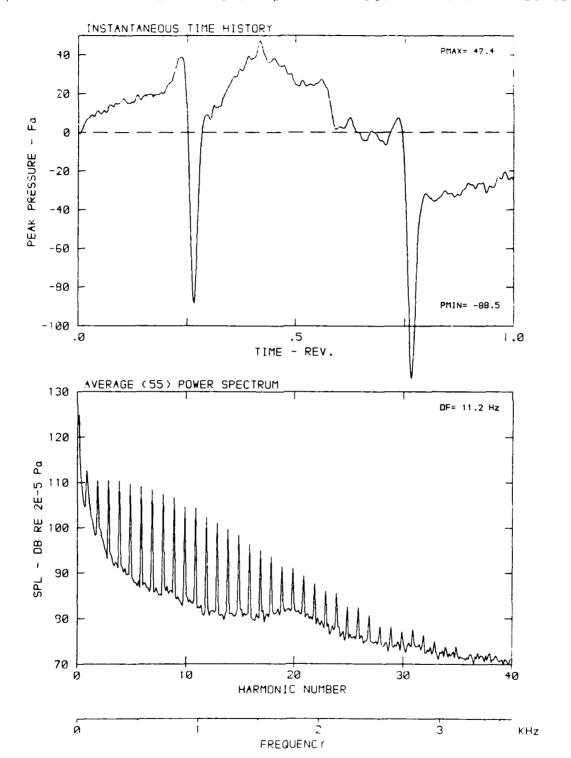
KHz

DATA POINT: 11-1 - 40 1.3 19-4 19-4 T

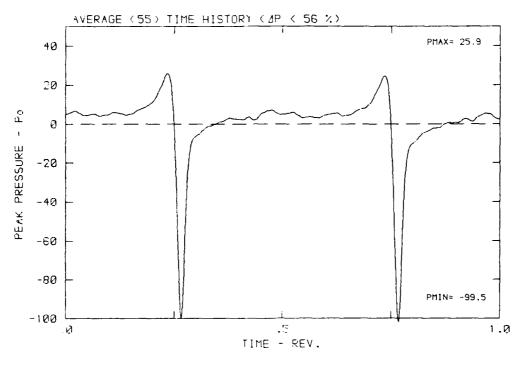




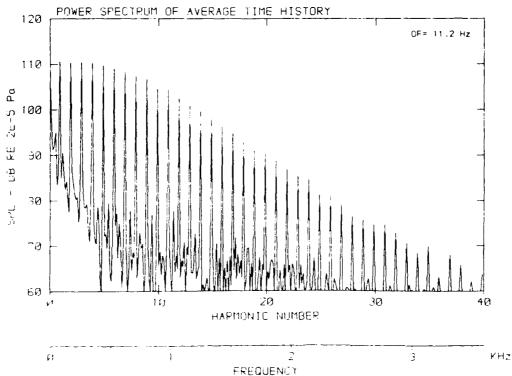
β: 19.9° MH: .8727 n: 2700 npm γ/u: .266 ⊕: -3.3° T: 288.3°



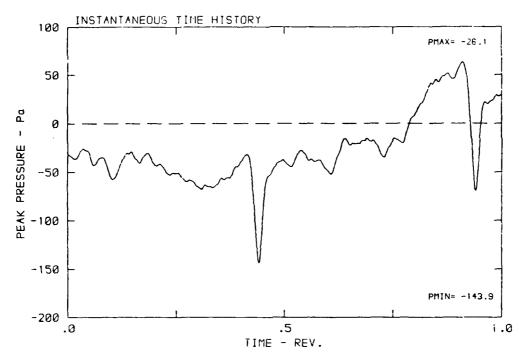
 β : 19.9° MH: .8727 n: 2700 rpm v/u: .268 ϕ : -3.8° T: 288.9 K

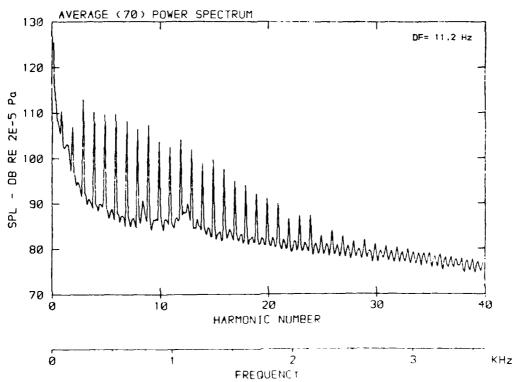


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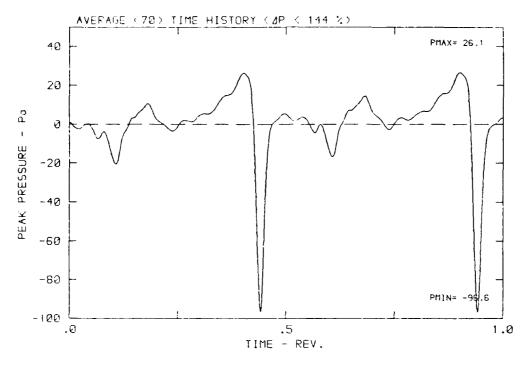


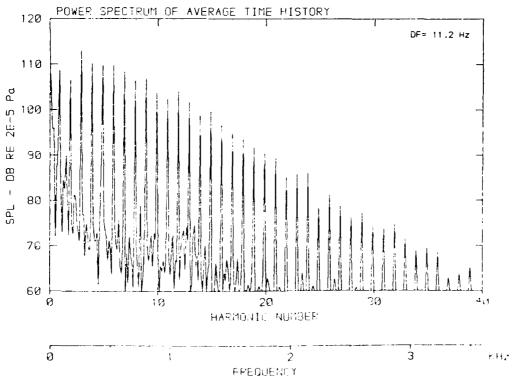
β: 19.9° MH: .8727 n: 2700 rpm v/u: .268 φ: -3.3° T: 288.9 K





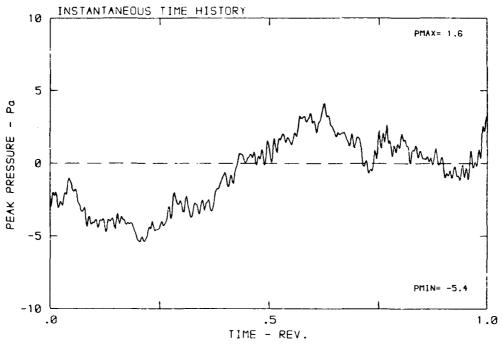
 β : 19.9° MH: .8727 n: 2700 rpm v/u: .268 ϕ : -3.8° T: 288.9 k

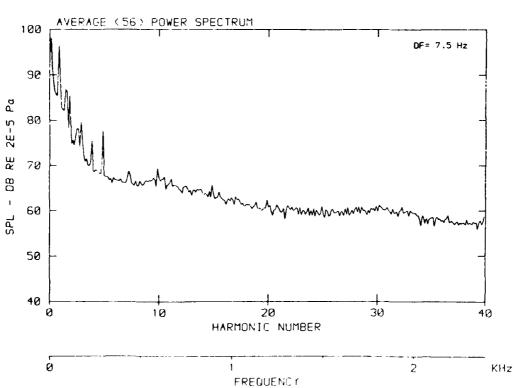




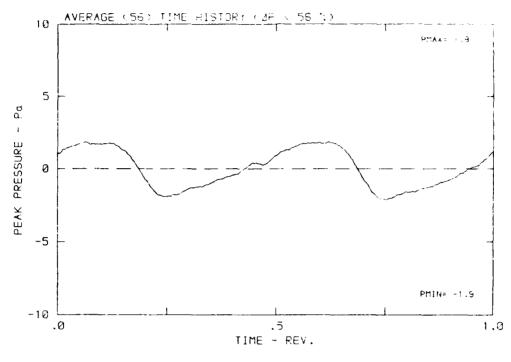
DATA FOINT: LN-4 RUN: 157 MP: 1

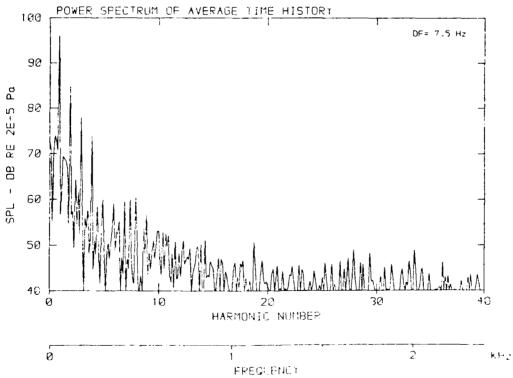
 $\beta\colon\,23.7^{\circ}\,$ MH: .5845 n: 1800 npm v/u: .268 $\psi\colon\,-3.8^{\circ}\,$ T: 285.3 K



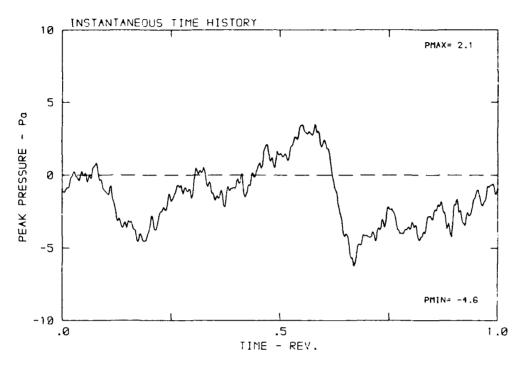


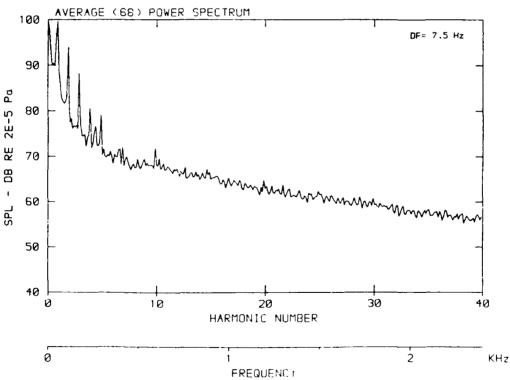
 β : 23.7° MH: .5845 n: 1800 npm v-u: .268 ϕ : -3.8° 1: 286.3 K



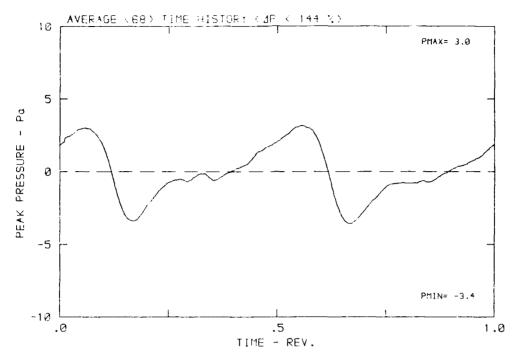


 β : 23.7° MH: .5845 n: 1800 npm v/u: .268 ϕ : -3.8° T: 286.3 K

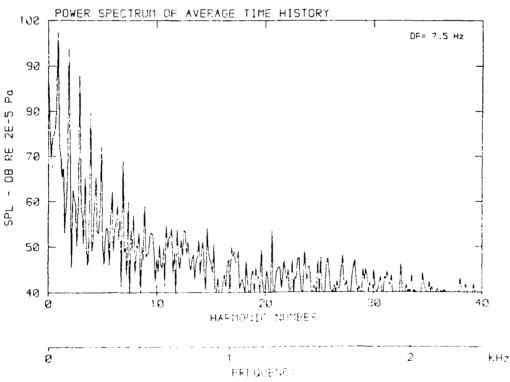




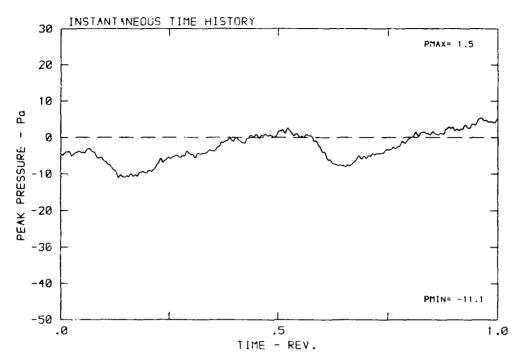
 β : 23.7° MH: .5845 n: 1800 npm v/u: .268 ϕ : -3.8° T: 286.3 K

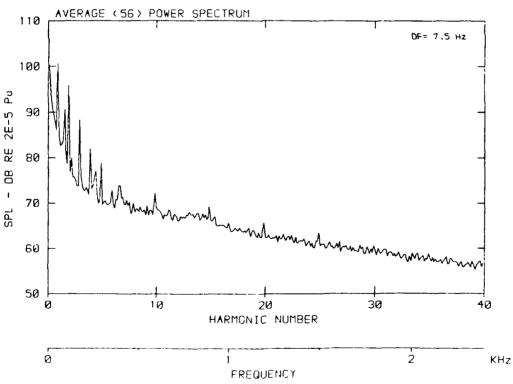


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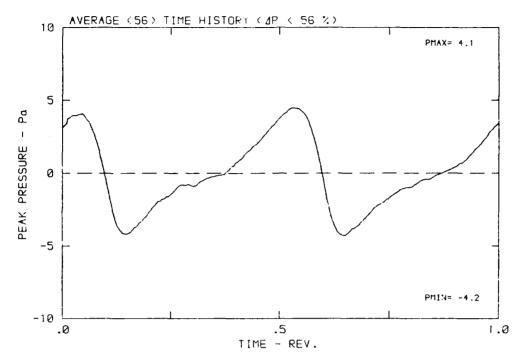


 $β: 23.7^{\circ}$ MH: .5845 n: 1800 rpm ν/u: .268 $φ: -3.8^{\circ}$ T: 286.3 K

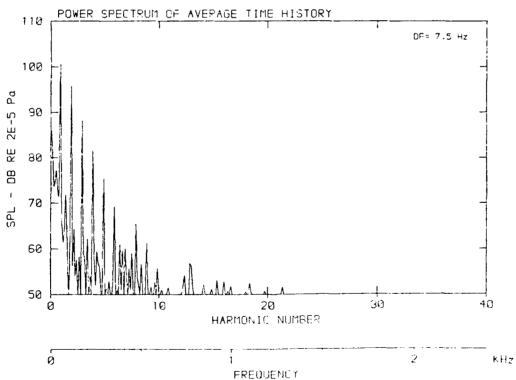




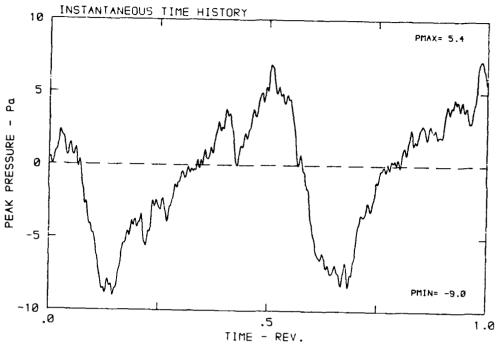
 β : 23.7° MH: .5845 n: 1800 rpm v/u: .268 ϕ : -3.8° T: 286.3 K

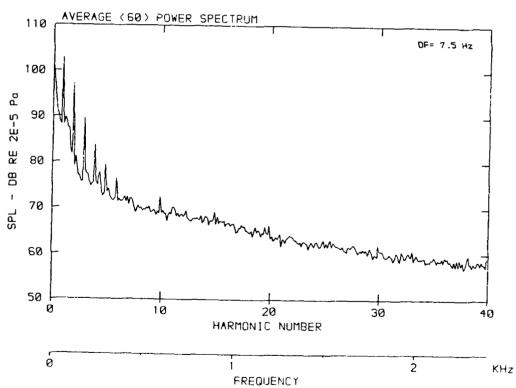


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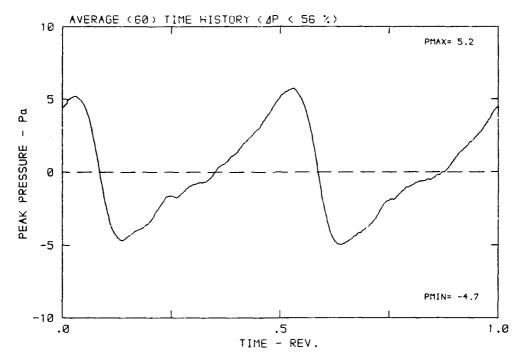


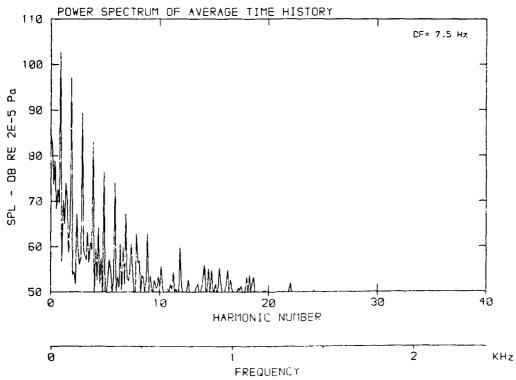
 β : 23.7° MH: .5845 n: 1800 rpm v/u: .268 ϕ : -3.8° T: 286.3 K



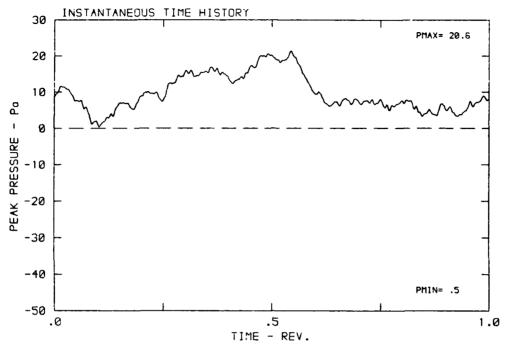


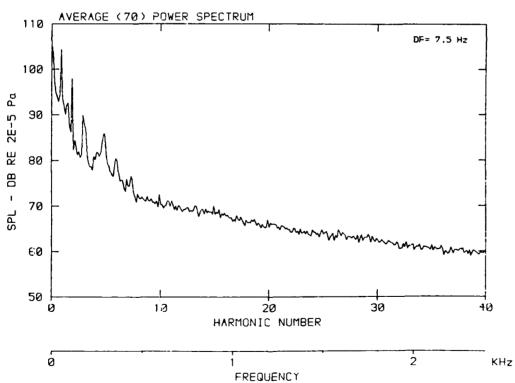
 β : 23.7° MH: .5845 n: 1800 npm v/u: .268 ϕ : -3.8° T: 286.3 K



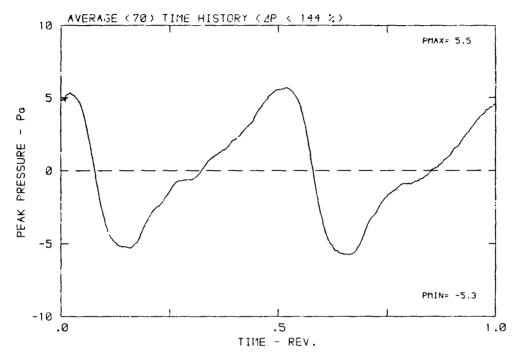


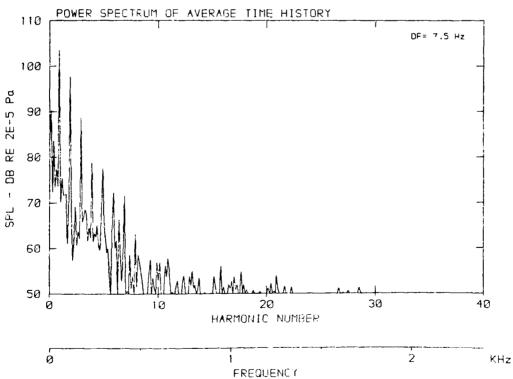
 β : 23.7° MH: .5845 n: 1800 npm v/u: .268 ϕ : -3.8° T: 286.3 K



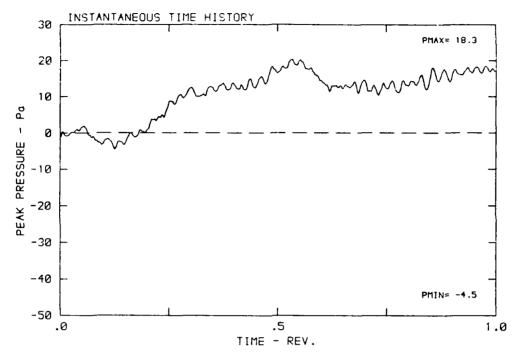


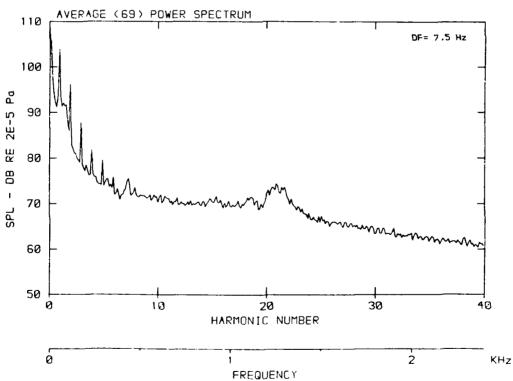
β: 23.7° MH: .5845 n: 1800 rpm v/u: .268 ψ: -3.8° T: 286.3 K



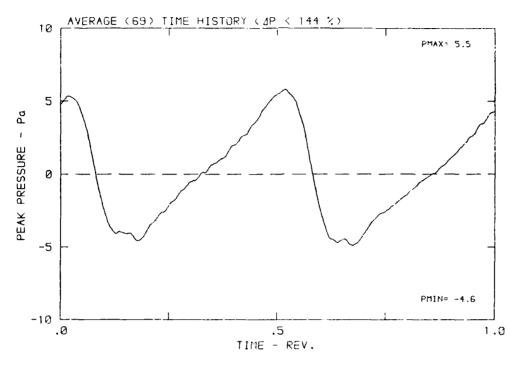


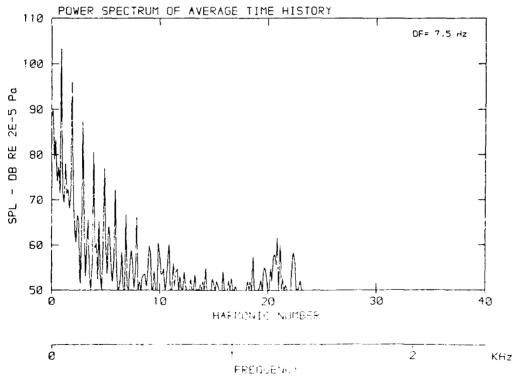
 $β: 23.7^{\circ}$ MH: .5845 n: 1800 rpm ννu: .268 $φ: -3.8^{\circ}$ T: 286.3 K



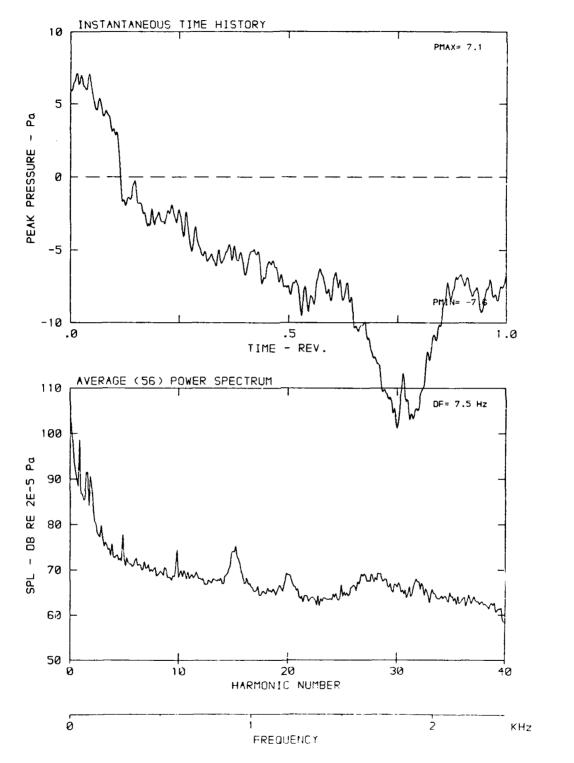


 β : 23.7° MH: .5845 n: 1800 npm V/U: .268 ϕ : -3.8° T: 286.3 K

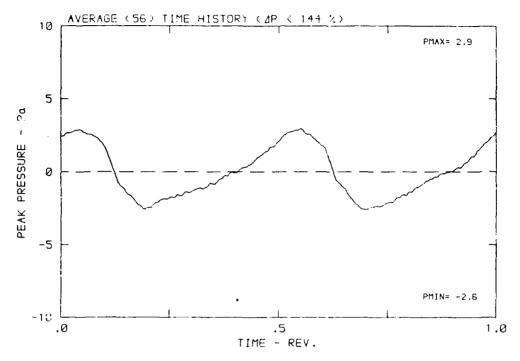


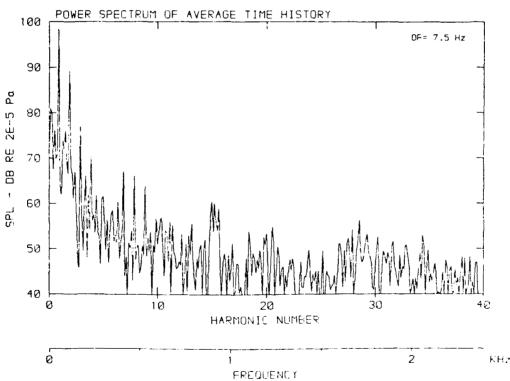


 $β: 23.7^{\circ}$ MH: .5845 n: 1800 npm V/U: .268 $φ: -3.8^{\circ}$ T: 286.3 K

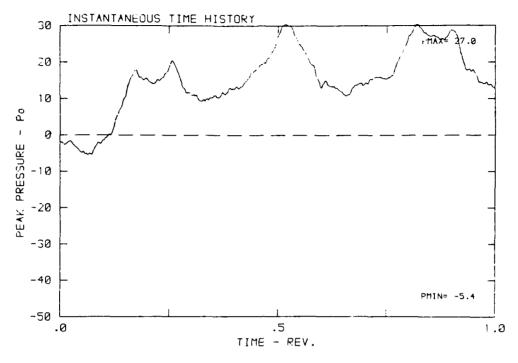


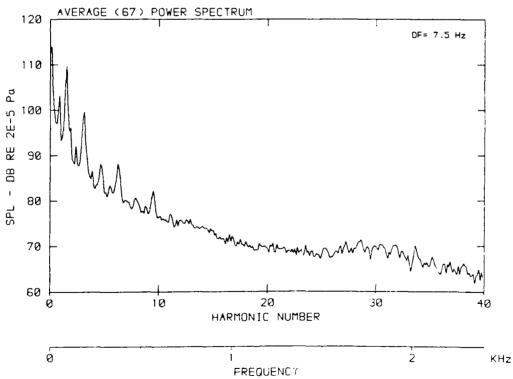
 $β: 23.7^{\circ}$ MH: .5845 n: 1800 npm V/U: .268 $φ: -3.8^{\circ}$ T: 286.3 K



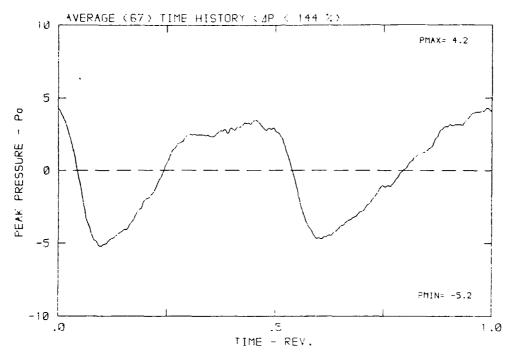


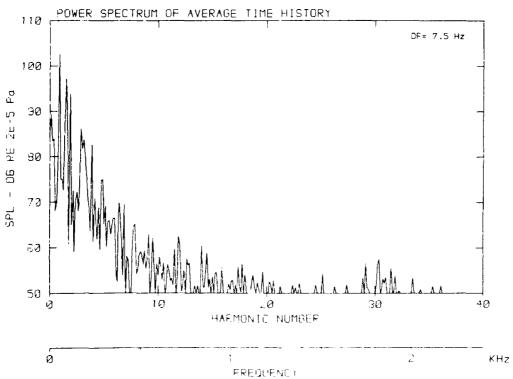
\$: 23.7° MH: .5845 n: 1800 npm V/u: .268 ϕ : -3.8° T: 286.3 k



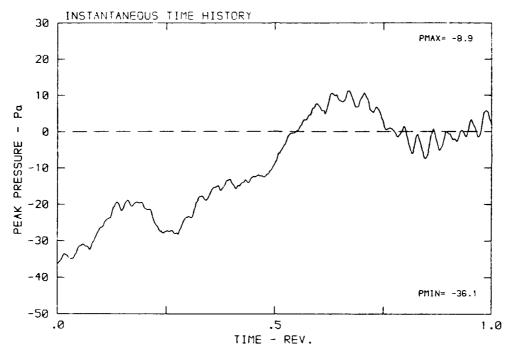


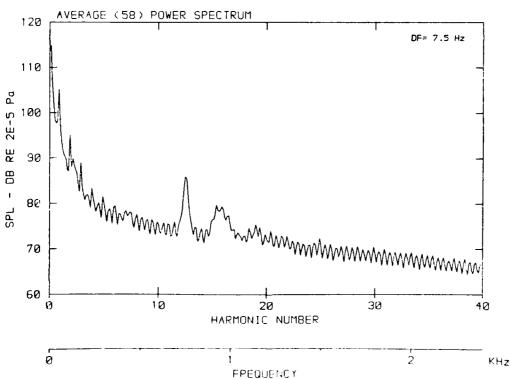
 $\beta\colon\,23.7^{\text{o}}\,$ MH: .5845 n: 1800 npm $\,$ v/u: .268 $\,$ $\varphi\colon\,$ -3.8° $\,$ T: 286.3 K





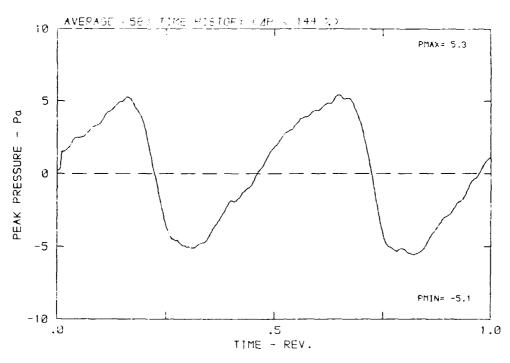
 β : 23.7° MH: .5845 n: 1800 npm v/u: .268 ϕ : -3.8° T: 286.3 K

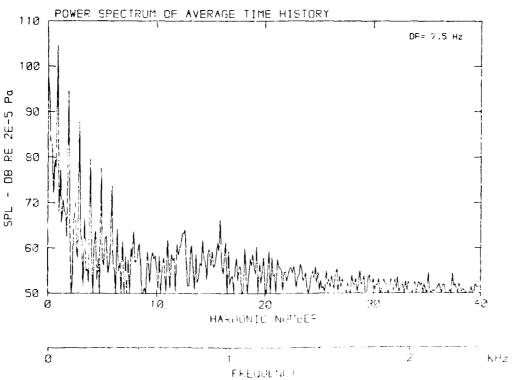




DATA POINT: INST REN: 157 MP: 9

 β : 23.7° MH: .5845 n: 1888 rpm v/u: .268 p: -3.8° T: 286.3 K

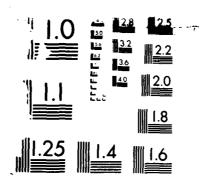




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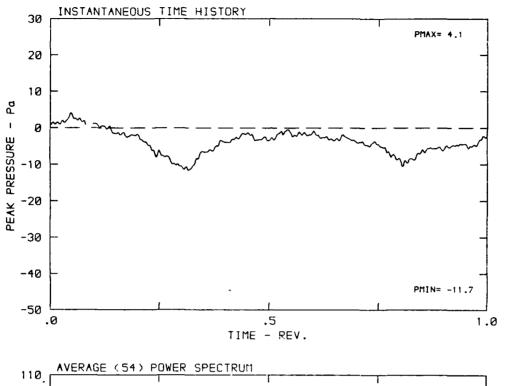
Δ

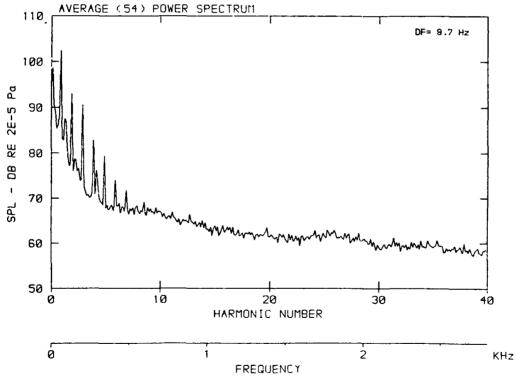


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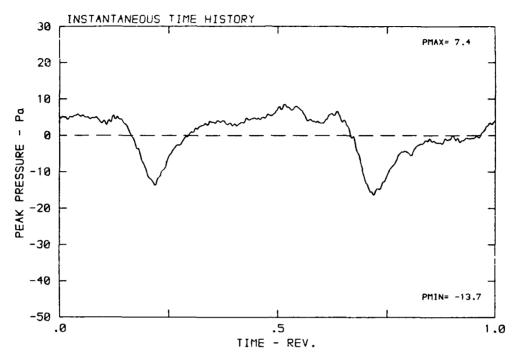
TO WE BY RESOUTHON TEST CHART

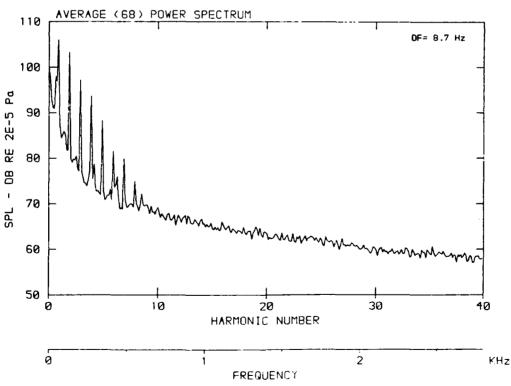
β: 23.7° MH: .6751 n: 2100 npm ν/u: .230 φ: -3.8° T: 286.9 K



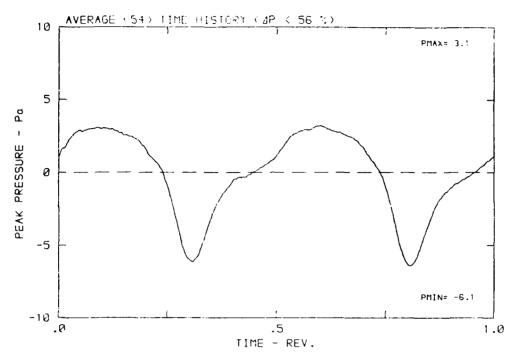


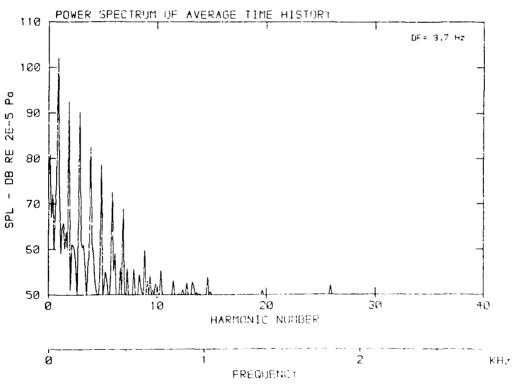
β: 23.7° MH: .6751 n: 2100 rpm v/u: .230 φ: -3.8° T: 286.9 K



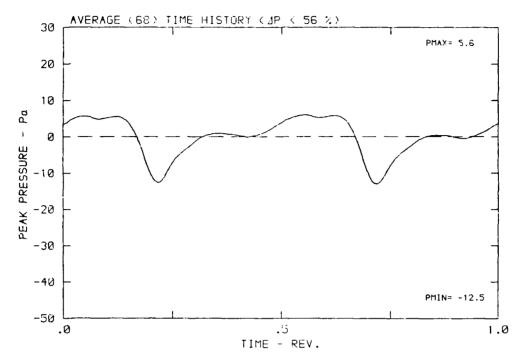


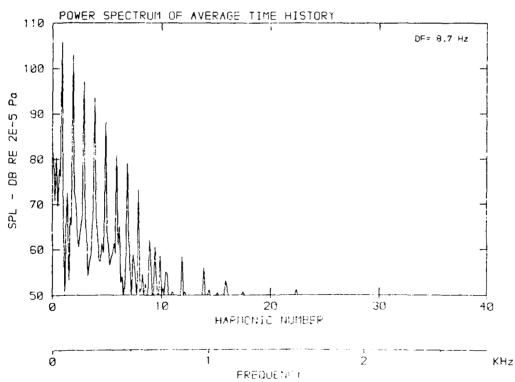
β: 23.7° MH: .6751 n: 2100 rpm ννu: .230 φ: -3.8° T: 286.9 K



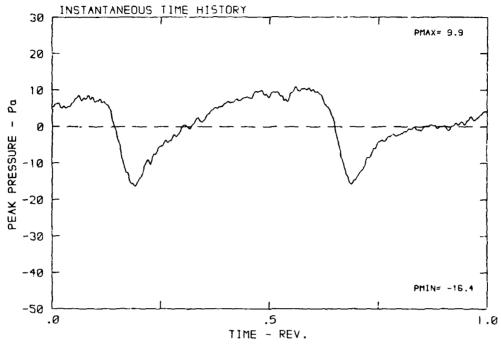


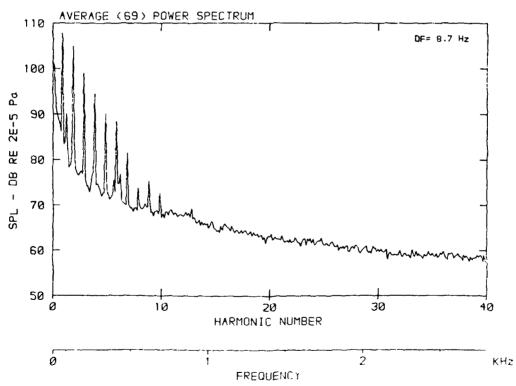
 β : 23.7° MH: .6751 n: 2100 npm v/u: .230 ϕ : -3.8° T: 286.9 K



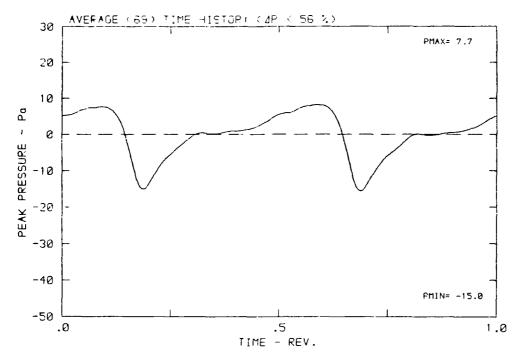


 β : 23.7° MH: .6751 n: 2100 rpm v/u: .230 ϕ : -3.8° T: 286.9 K

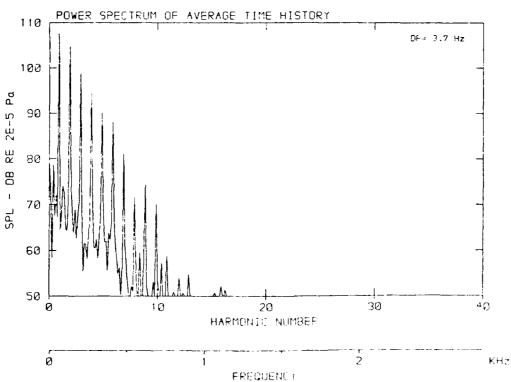




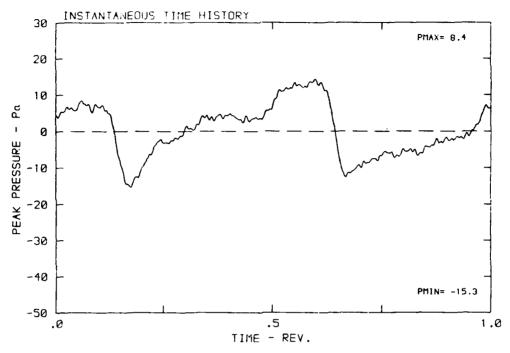
β: 23.7° MH: .6751 n: 2100 npm - -230 -9: -3.8° -7: 286.9 +

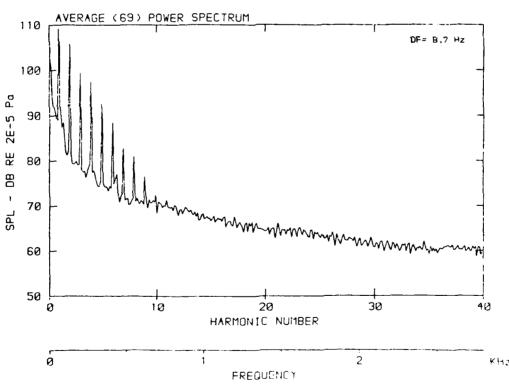


DIVITALLE SAMPLES CONTROL

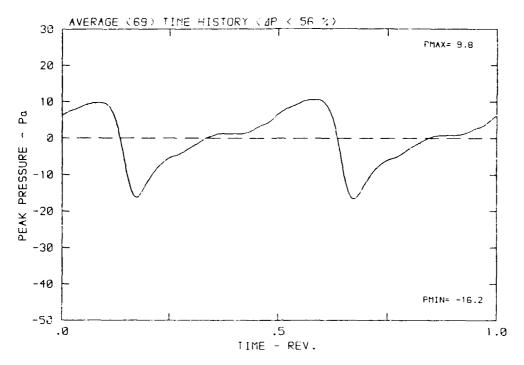


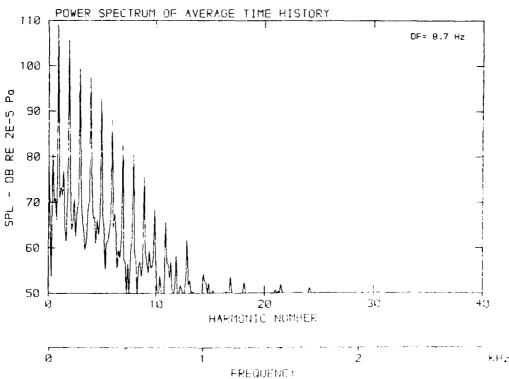
β: 23.7° MH: .6751 n: 2100 rpm ν/u: .230 φ: -3.8° T: 286.9 K



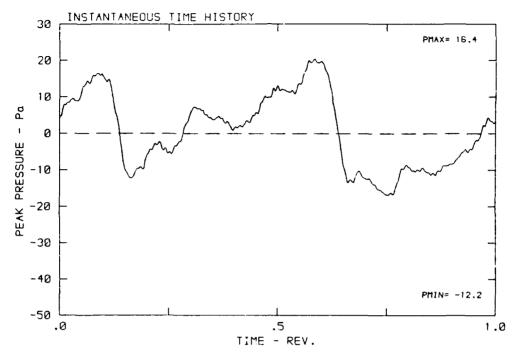


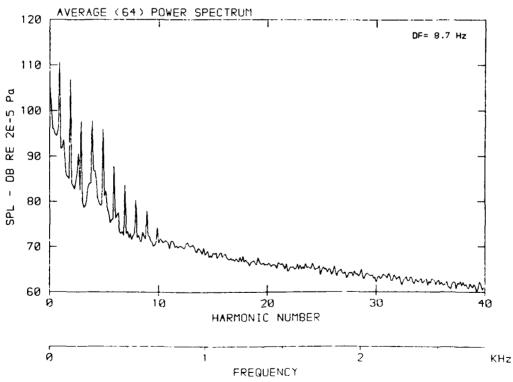
β: 23.7° MH: .6751 n: 2100 npm v/u: .230 φ: -3.8° T: 286.9 K



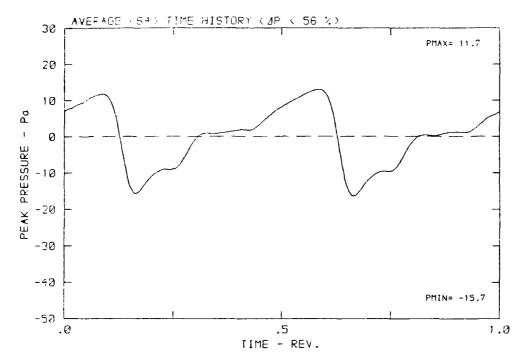


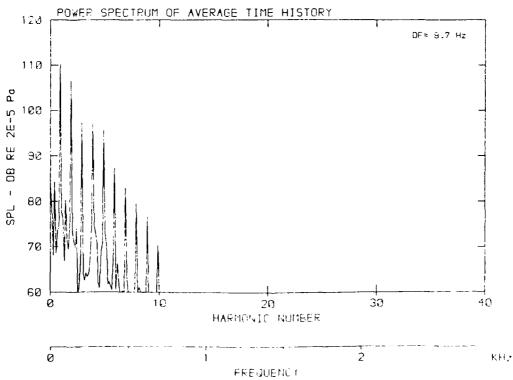
 β : 23.7° MH: .6751 n: 2100 npm v/u: .230 ϕ : -3.8° T: 286.9 K



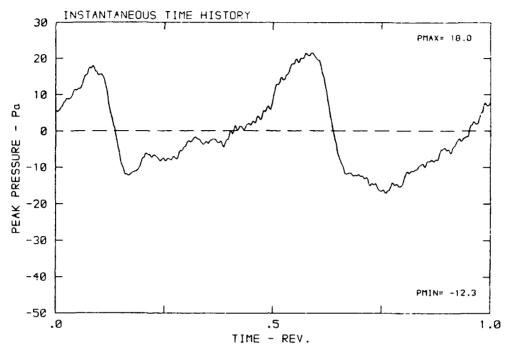


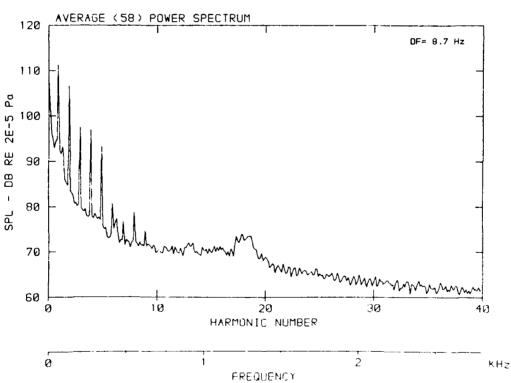
 β : 23.7° MH: .875; n: 2100 npm v/u: .230 ϕ : -3.8° T: 286.9 K



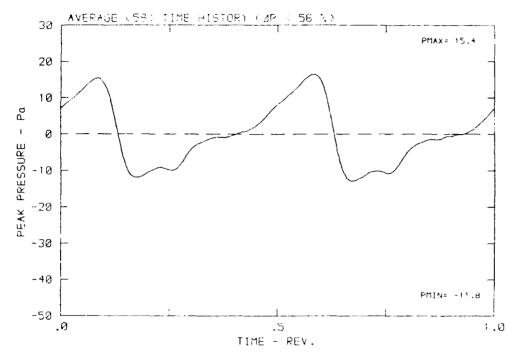


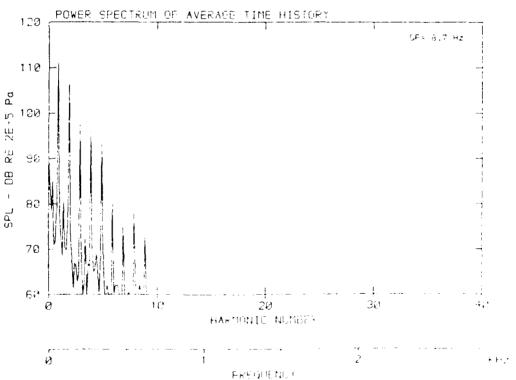
β: 23.7° MH: .6751 n: 2100 rpm v/u: .230 φ: -3.9° T: 286.9 K



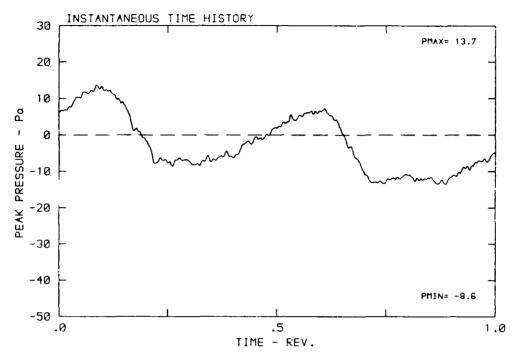


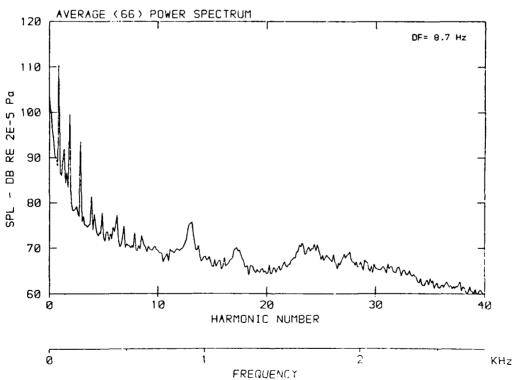
β: 23.7° MH: .6751 n: 2100 npm γ/u: .230 φ: -3.3° T: 186.9 κ

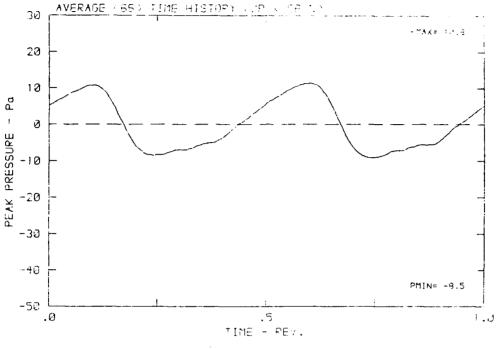




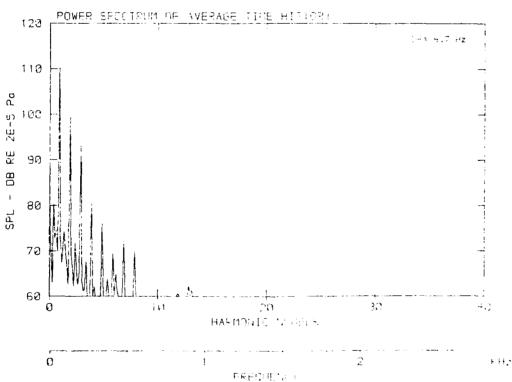
β: 23.7° MH: .6751 n: 2100 npm v/u: .230 ψ: -3.8° T: 286.9 K



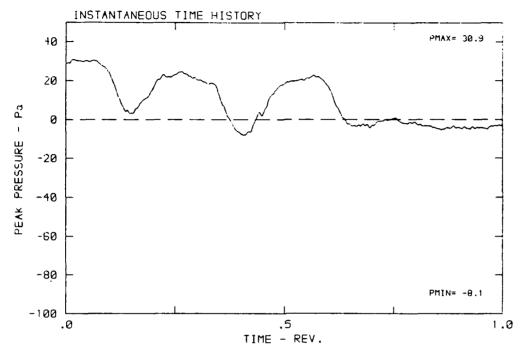


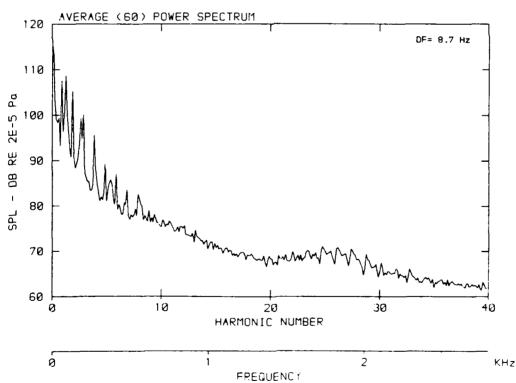


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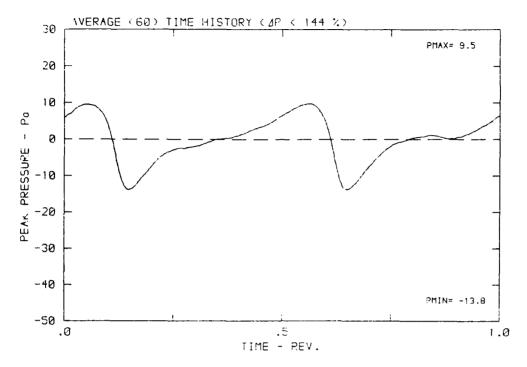


β: 23.7° MH: .6751 n: 2100 rpm v/u: .230 φ: -3.3° T: 286.9 K

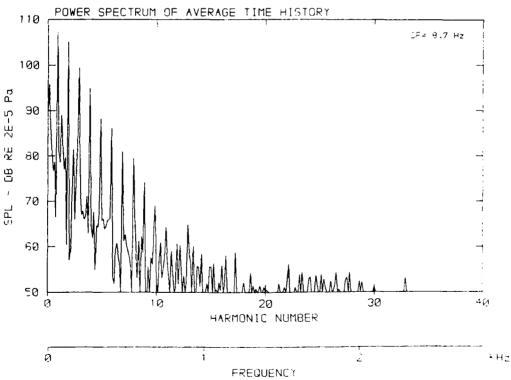




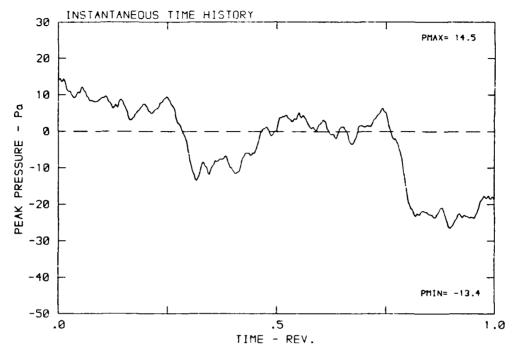
 β : 23.7° MH: .6751 n: 2100 rpm v/u: .230 ϕ : -3.8° T: 286.9 K

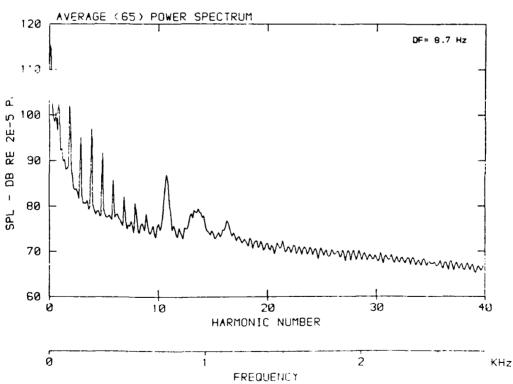


the management consistes proposes accompanies

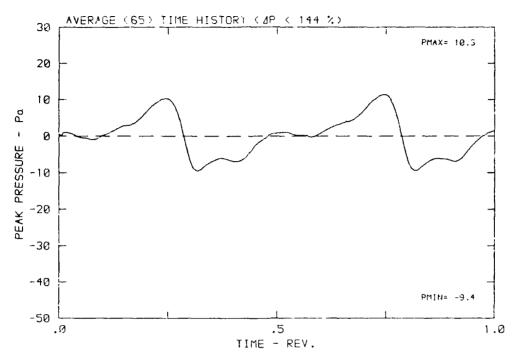


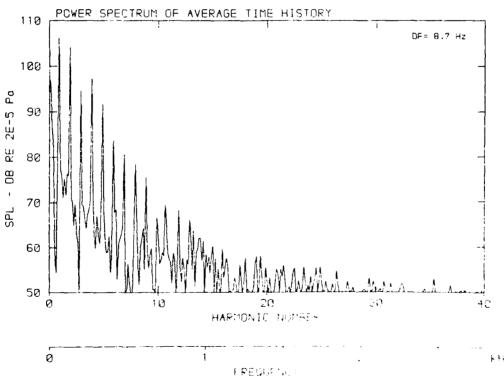
β: 23.7° MH: .6751 n: 2100 npm V/U: .230 Φ: -3.8° T: 286.9 K



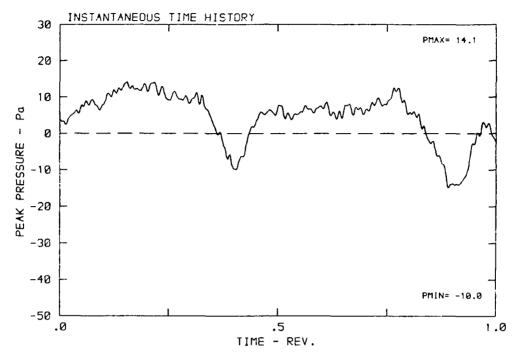


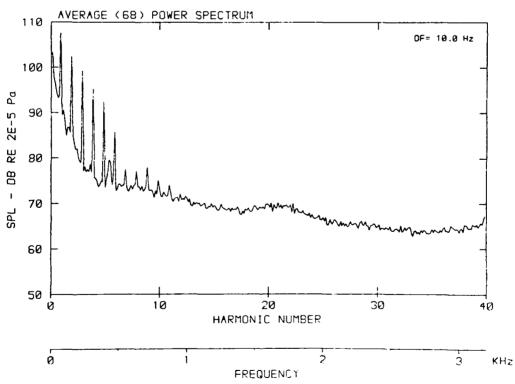
 β : 23.7° MH: .6751 n: 2100 rpm v/u: .230 ϕ : -3.8° T: 286.9 K



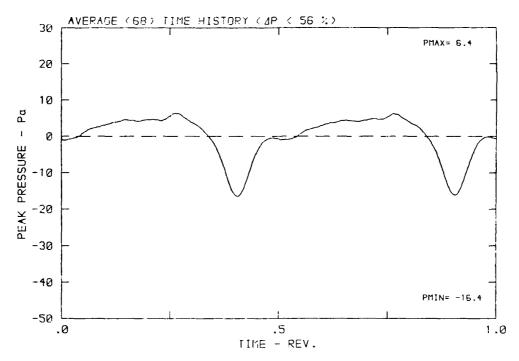


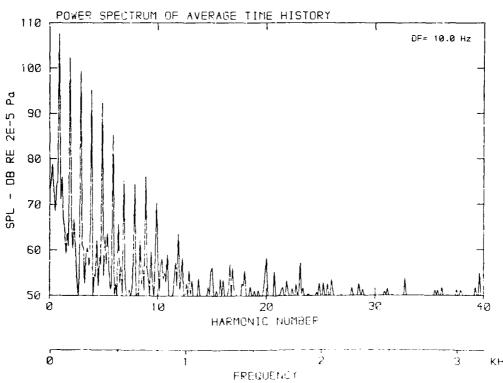
 β : 23.7° MH: .7771 n: 2400 rpm v/u: .263 ϕ : -3.8° T: 287.2 K



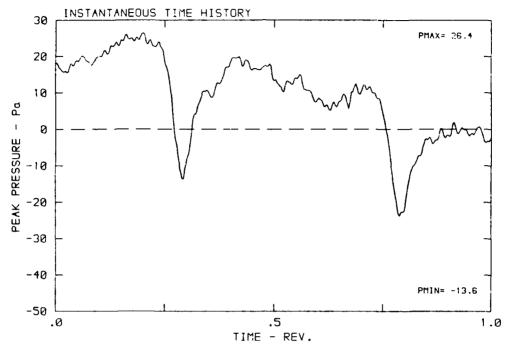


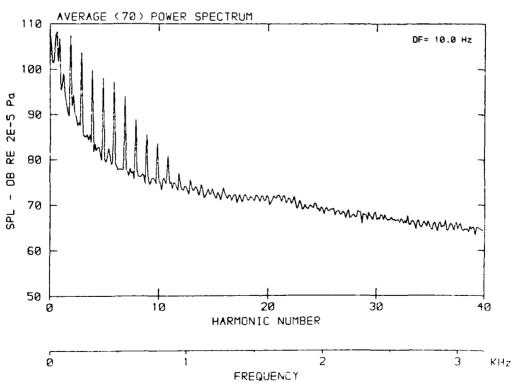
 β : 23.7° MH: .7771 n: 2400 npm v/u: .263 ϕ : -3.8° T: 287.2 K



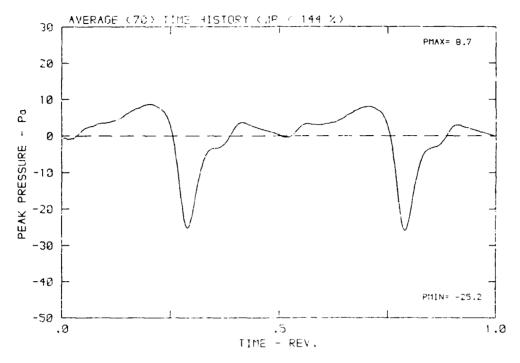


 $\beta: 23.7^{\circ}$ MH: .7771 n: 2400 npm $\text{v/u}: .263 \ \phi: -3.8^{\circ}$ T: 297.2 k

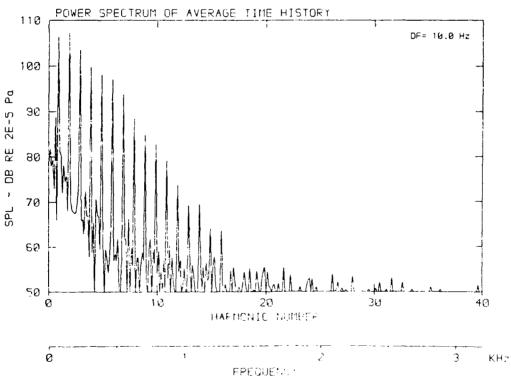




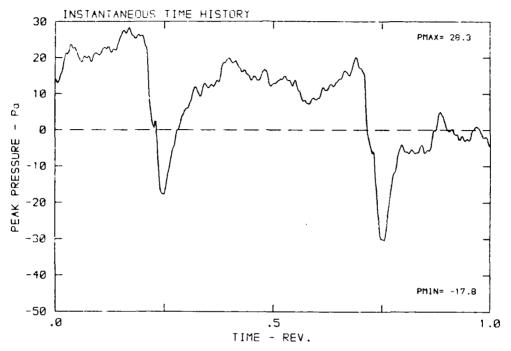
 $\beta\colon\,23.7^{o}$ MH: .7771 n: 2400 npm v/u: .263 $\varphi\colon\,-3.8^{o}$ T: 287.2 K

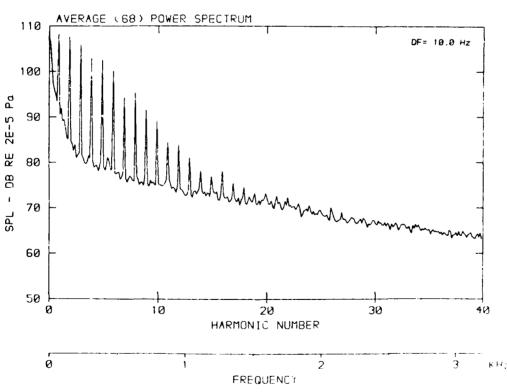


processor exercises processed incompany of

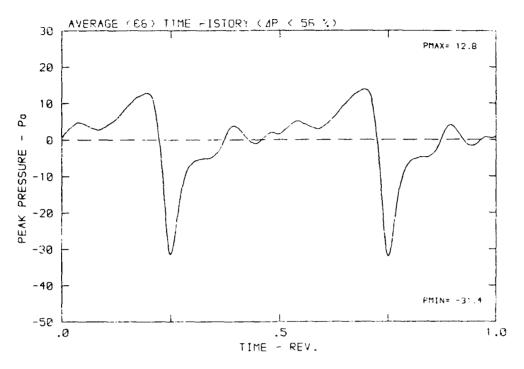


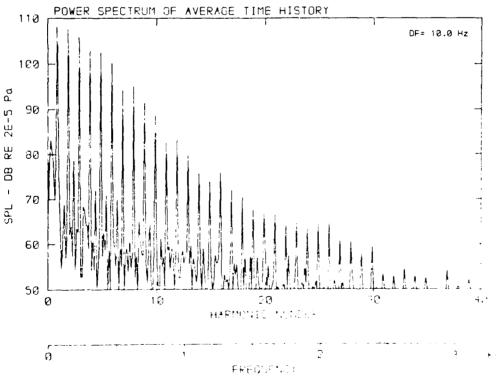
β: 23.7° MH: .7771 n: 2400 npm γ/u: .263 φ: -3.6° T: 287.2 κ



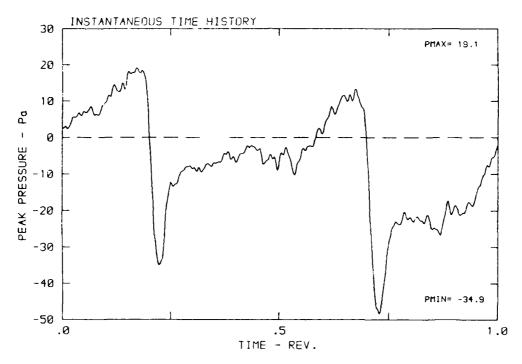


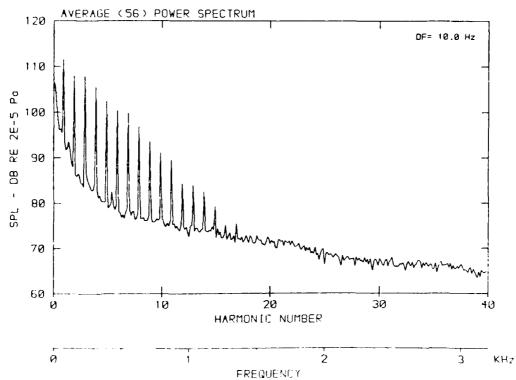
 β : 23.7° MH: .7771 n: 2400 npm v/u: .263 ϕ : -3.8° T: 287.2 \times



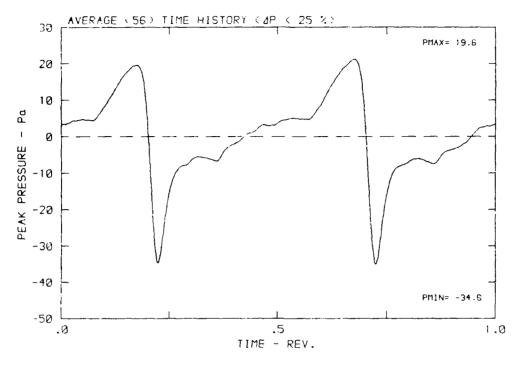


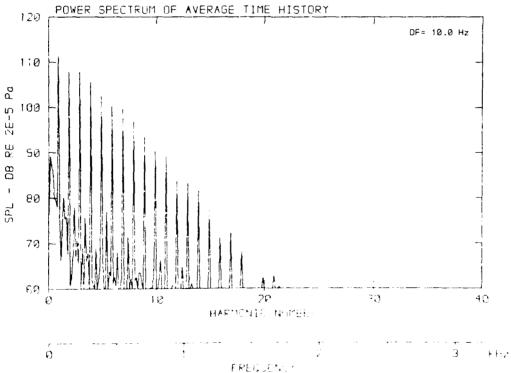
β: 23.7° MH: .7771 n: 2400 rpm v/u: .263 ψ: -3.8° T: 287.2 K



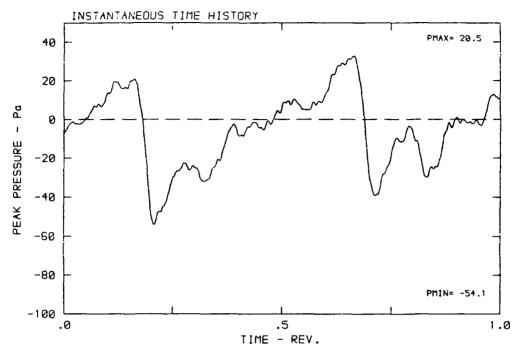


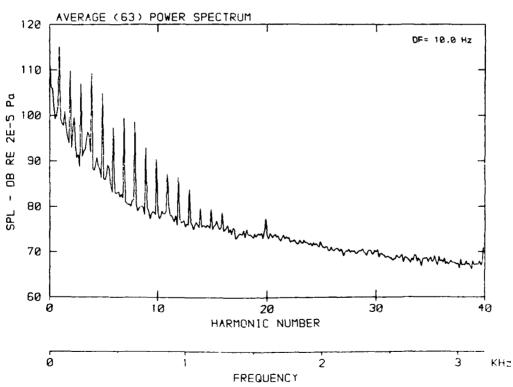
β: 23.7° MH: .7771 n: 2400 rpm v/u: .268 φ: -3.8° T: 287.2 K



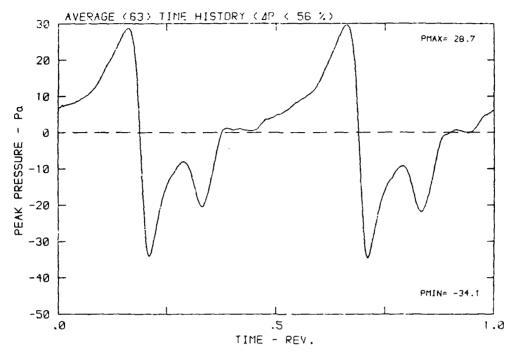


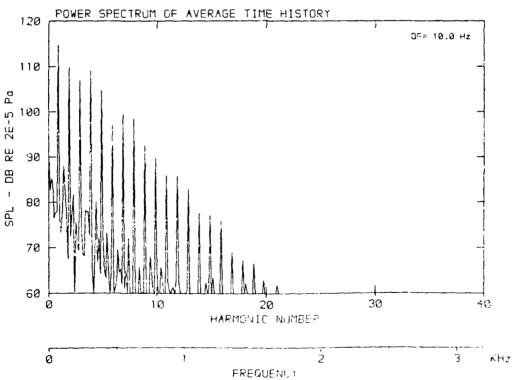
 $β: 23.7^{\circ}$ MH: .7771 n: 2400 rpm ν/u: .263 $φ: -3.8^{\circ}$ T: 287.2 K



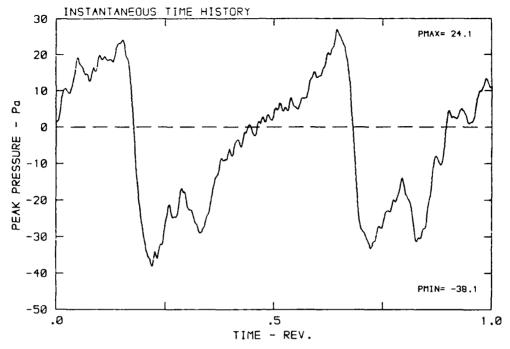


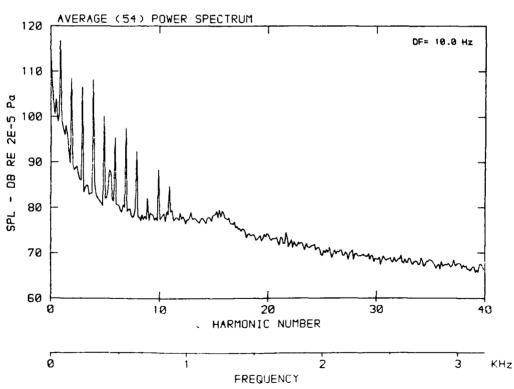
 β : 23.7° MH: .7771 n: 2400 npm v/u: .263 ϕ : -3.8° T: 287.2 K



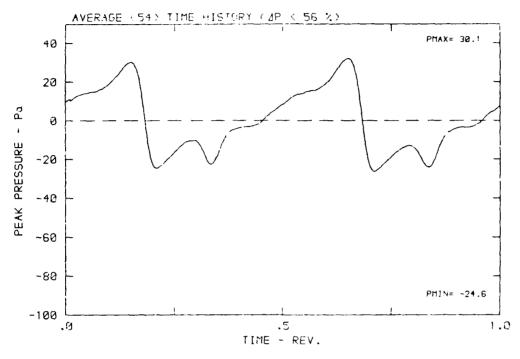


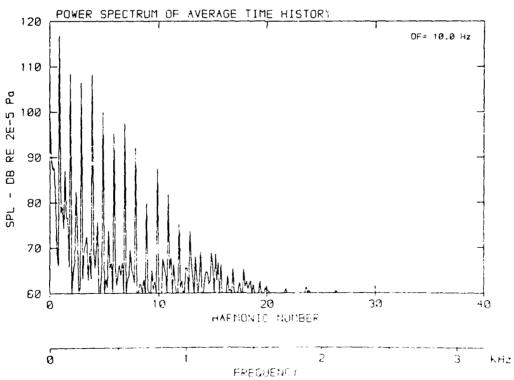
 β : 23.7° MH: .7771 n: 2400 rpm v/u: .263 ψ : -3.8° T: 287.2 K



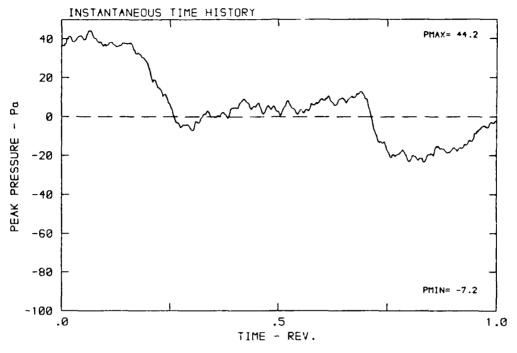


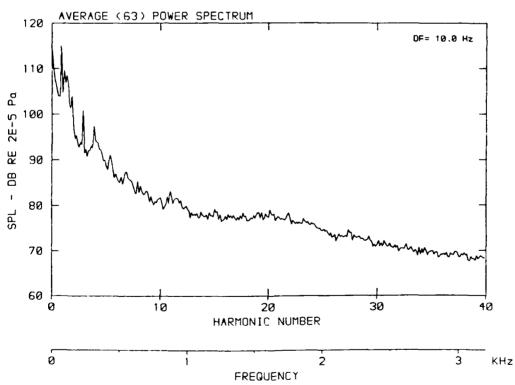
 $\beta\colon\,23.7^{o}$ MH: .7771 n: 2400 cpm v/u: .263 $\varphi\colon\, \text{-3.8}^{o}$ T: 287.2 K



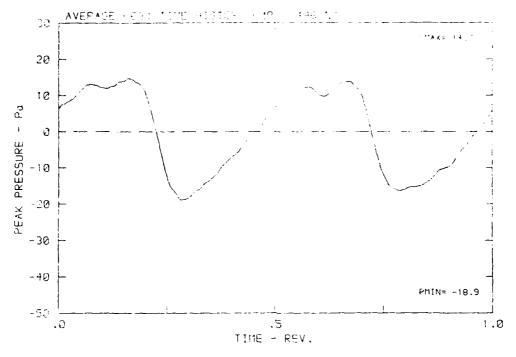


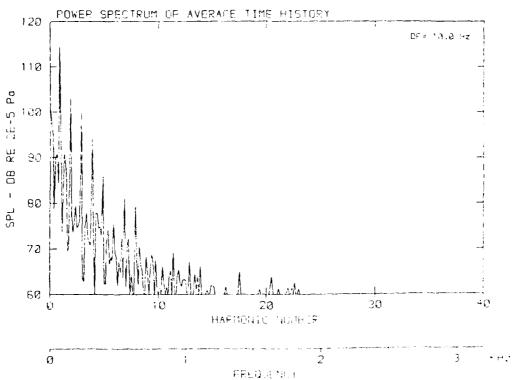
 $\beta\colon\,23.7^{\circ}\,$ MH: .7771 n: 2400 rpm v/u: .263 $\varphi\colon\,-3.8^{\circ}\,$ T: 287.2 K



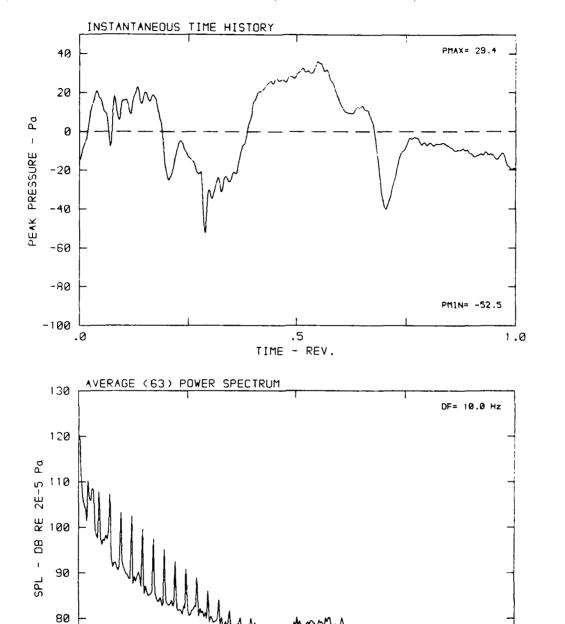


DATA POINT: LN-8 P 13 154 P 15





β: 23.7° MH: .7771 n: 2400 rpm v/u: .263 ψ: -3.8° T: 287.2 K



20

HARMONIC NUMBER

FREQUENCY

30

3

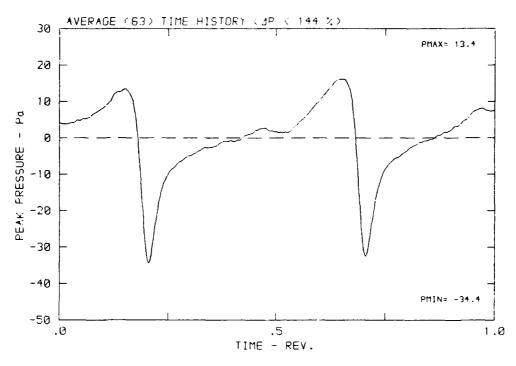
KHz

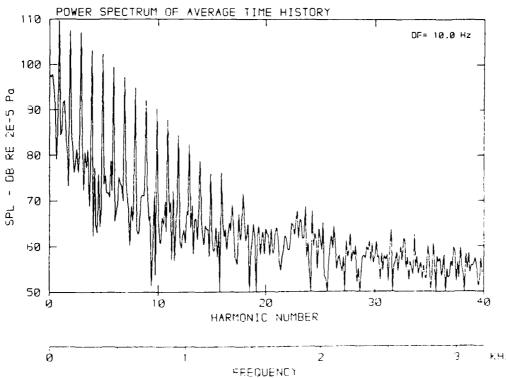
70

ø

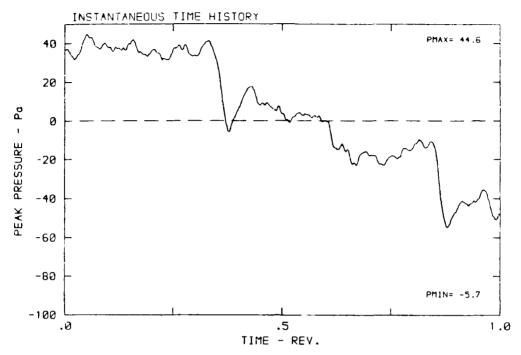
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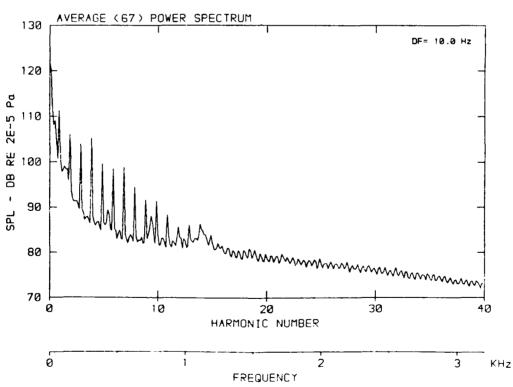
β: 23.7° MH: .7771 n: 2400 npm v/u: .263 φ: -3.8° T: 287.2 K



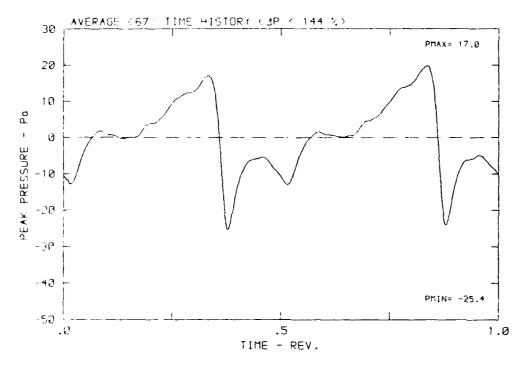


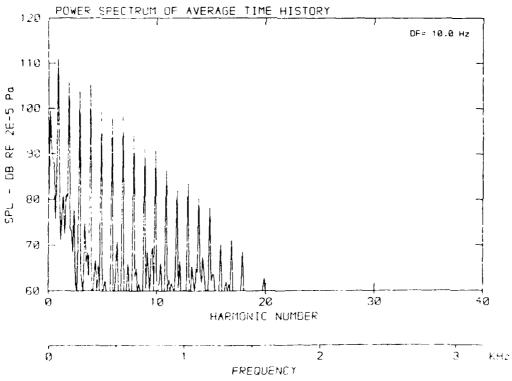
β: 23.7° MH: .7771 n: 2400 npm $\sqrt{2}$ u: .263 φ: -3.8° 7: 267.1



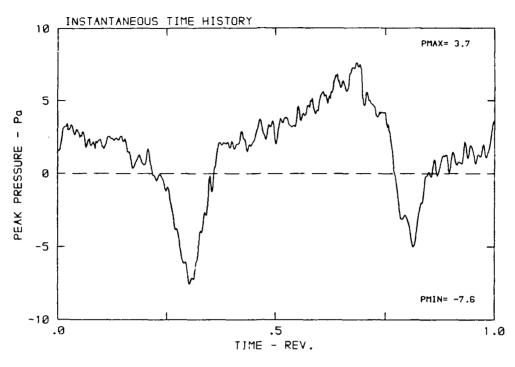


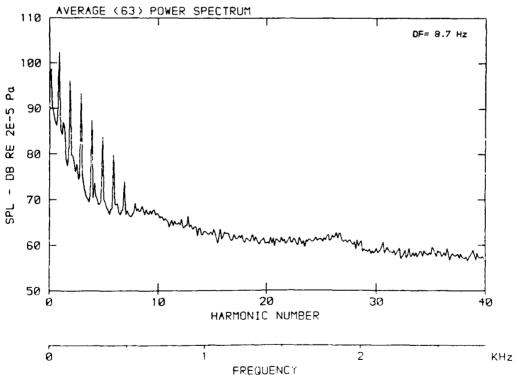
 $\beta\colon 23.7^{\circ}$ MH: .7771 n: 2400 npm v/u: .263 $\varphi\colon -3.8^{\circ}$ T: 287.2 K



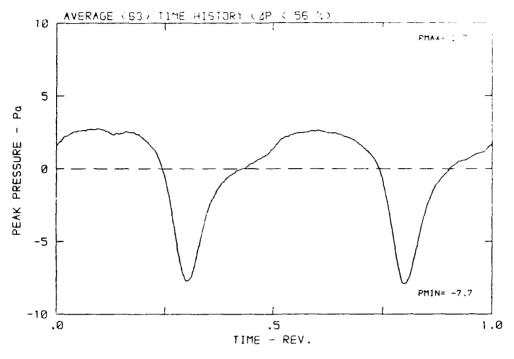


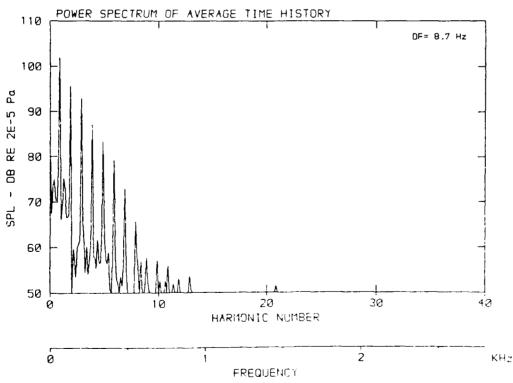
 $\beta\colon\,19.9^{\circ}\,$ MH: .6745 n: 2100 rpm v/u: .231 $\varphi\colon\,3.6^{\circ}\,$ T: 287.5 K





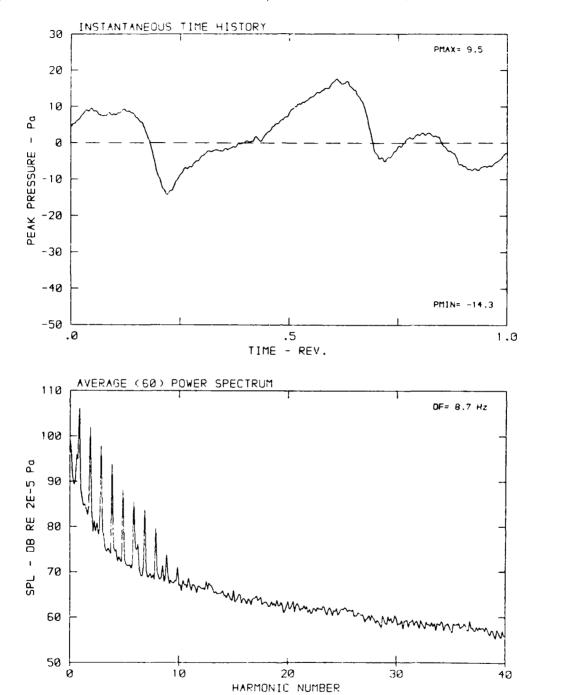
β: 19.9° MH: .6745 n: 2100 npm v/u: .231 φ: 3.6° $^{+}$: 381.5





DATA POINT: FN-1 RUN: 186 MF; 2

β: 19.9° MH: .6745 n: 2100 npm γ/u: .231 φ: 3.6° T: 287.5 K



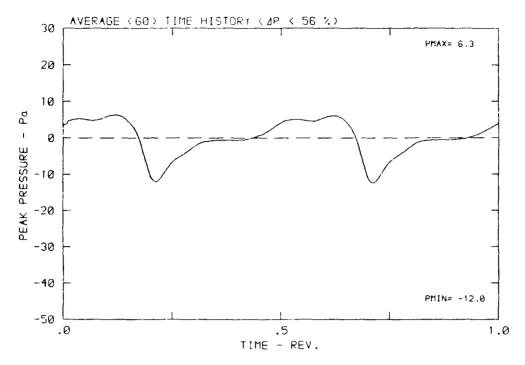
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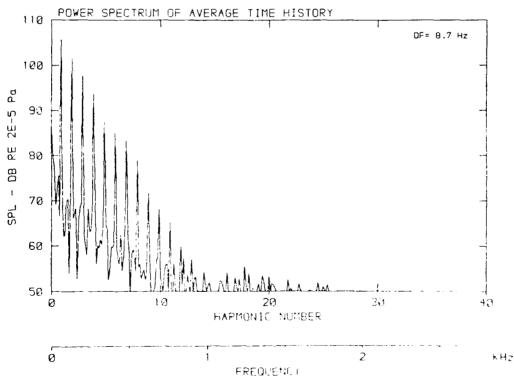
FREQUENCY

ż

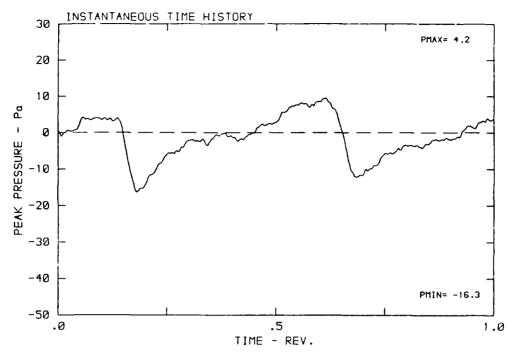
KHz

β: 19.9° MH: .6745 n: 2100 rpm ν/u: .231 φ: 3.6° T: 287.5 K

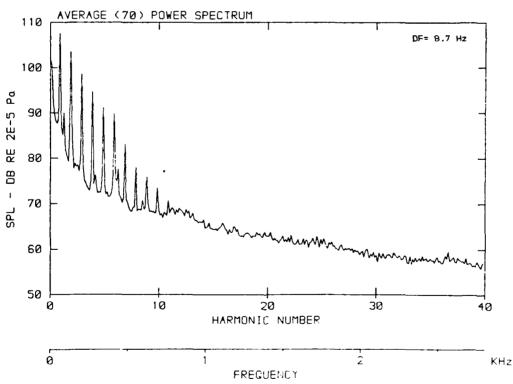




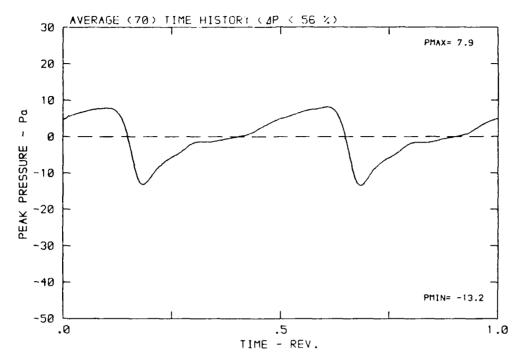
β: 19.9° MH: .6745 n: 2100 rpm v/u: .231 ψ: 3.6° T: 287.5 K



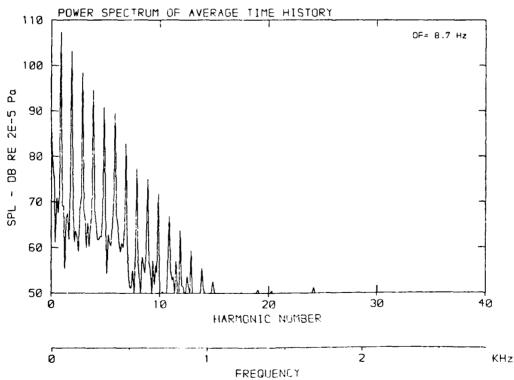
المحدث ومجمع الافتخدة فالمراجع التراج



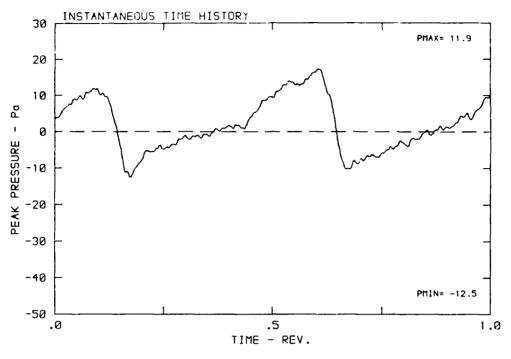
 β : 19.9° MH: .6745 n: 2100 rpm v/u: .231 ϕ : 3.6° T: 287.5 K

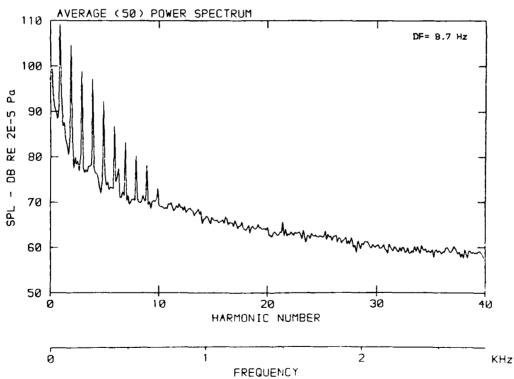


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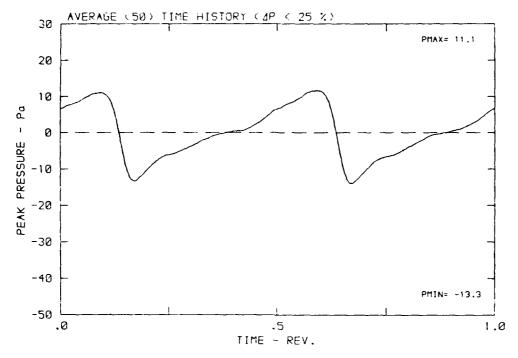


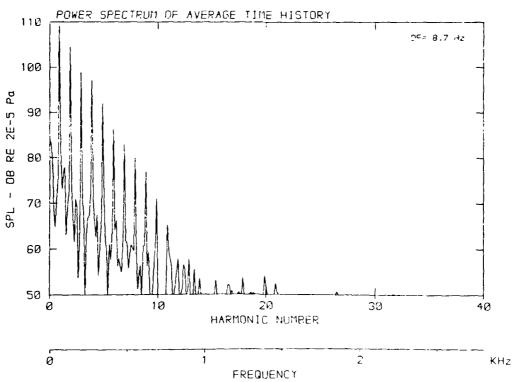
β: 19.9° MH: .6745 n: 2100 rpm \/u: .231 φ: 3.6° T: 287.5 K



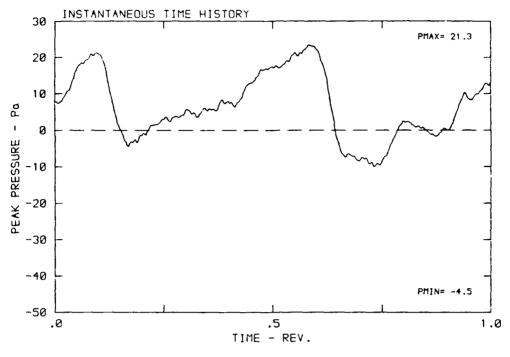


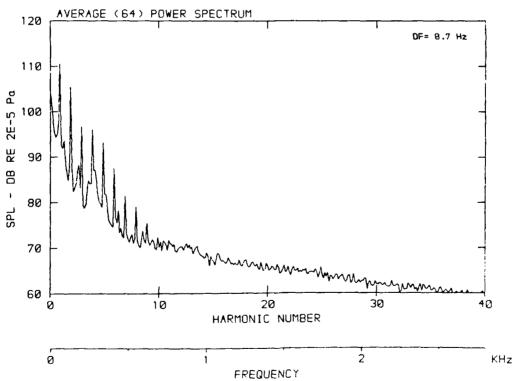
 $\beta\colon\,19.9^{\circ}\,$ MH: ,6745 n: 2100 rpm v/u: .231 $\varphi\colon\,3.6^{\circ}\,$ T: 287.5 K



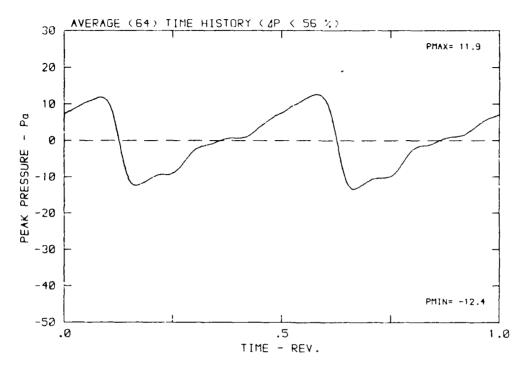


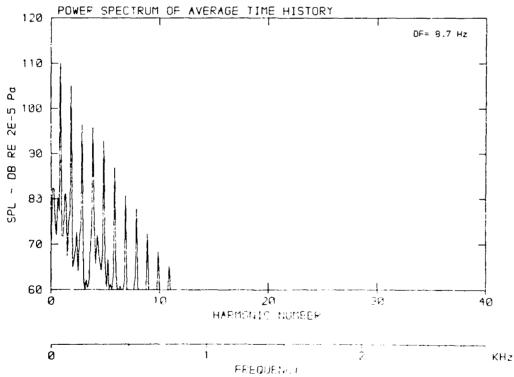
β: 19.9° MH: .6745 n: 2100 rpm ν/u: .231 φ: 3.6° T: 287.5 K



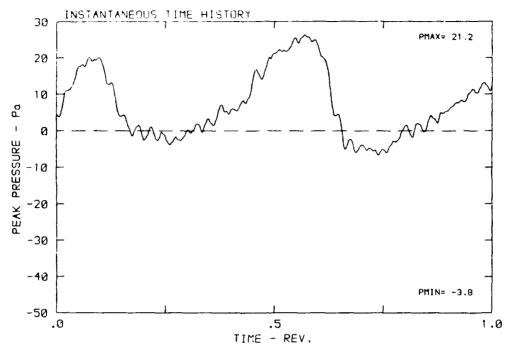


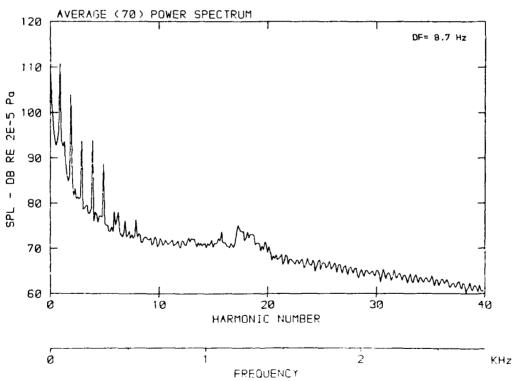
 β : 19.9° MH: .6745 n: 2100 rpm v/u: .231 ϕ : 3.6° T: 287.5 K





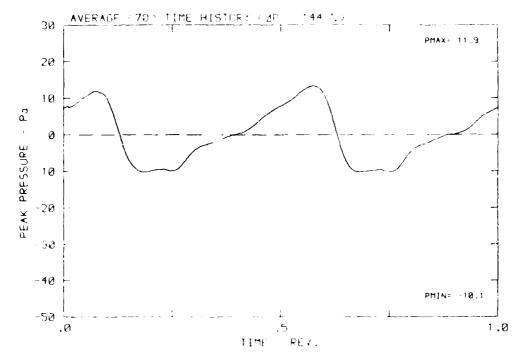
β: 19.9° MH: .6745 n: 2100 rpm v/u: .231 φ: 3.6° T: 287.5 K

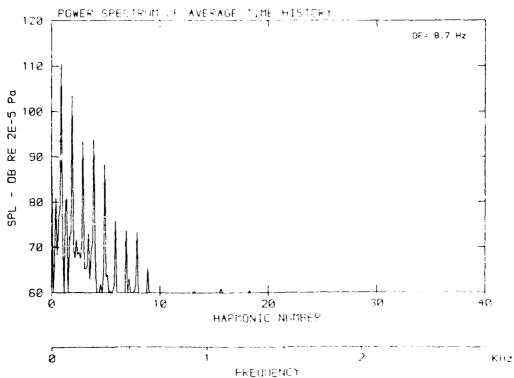




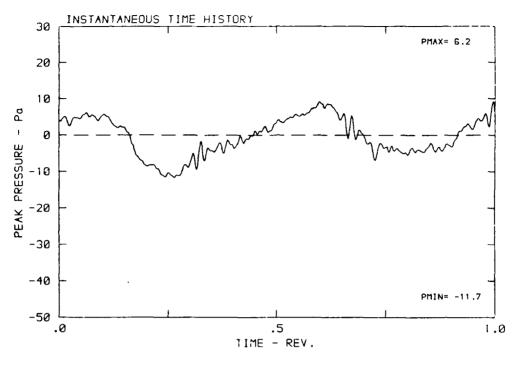
DATA POINT: FN-1 PIN: IE- MF: 5

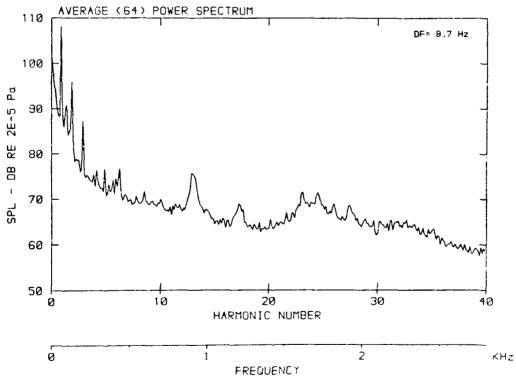
 $\beta: 19.9^{\circ}$ MH: .6745 n: 2100 npm v.u: .231 p: 3.60 T: 287.5 K



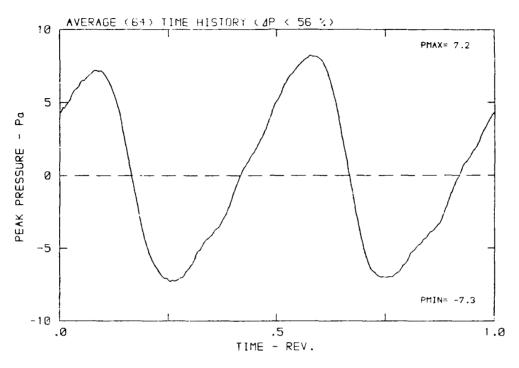


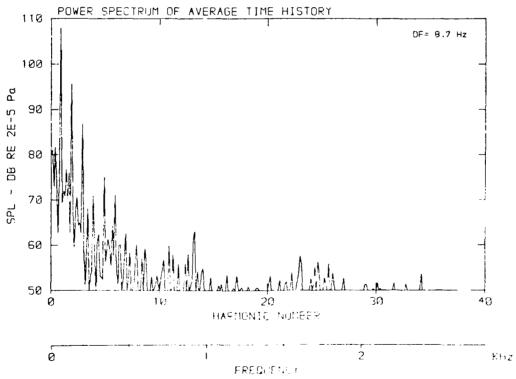
β: 19.9° MH: .6745 n: 2100 rpm v/u: .231 φ: 3.6° T: 287.5 K



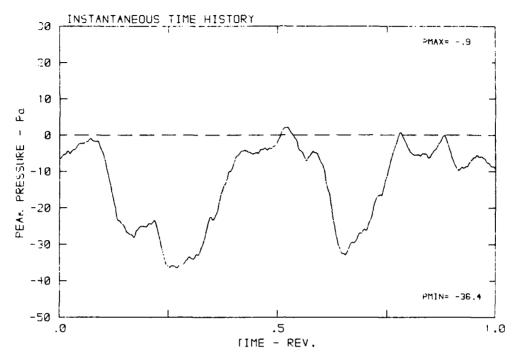


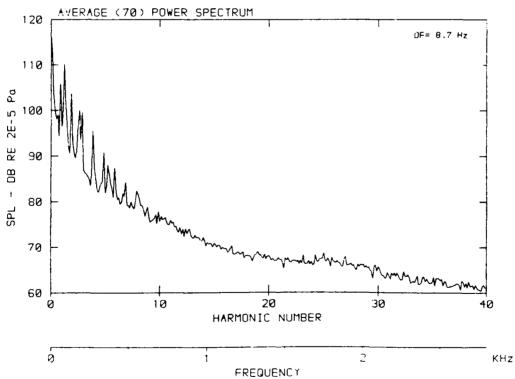
β: 19.9° MH: .6745 n: 2100 rpm ν/u: .231 φ: 3.6° T: 287.5 K



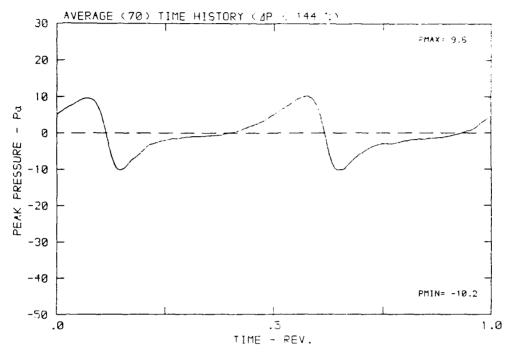


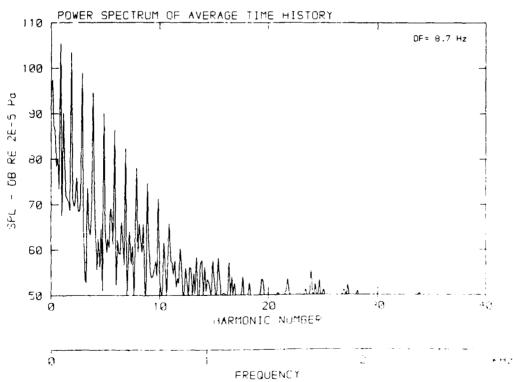
β: 19.9° MH: .6745 n: 2100 npm v/u: .231 φ: 3.6° T: 287.5 K



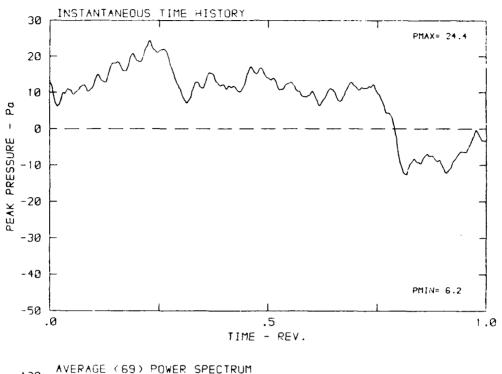


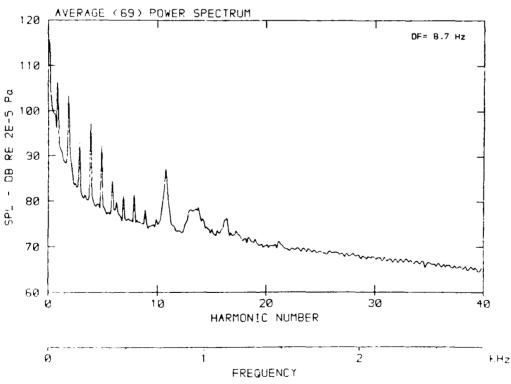
 $\beta\colon\,19.9^{o}\,$ MH: .6745 n: 2100 rpm v/u: .231 $\varphi\colon\,3.6^{o}\,$ T: 287.5 K



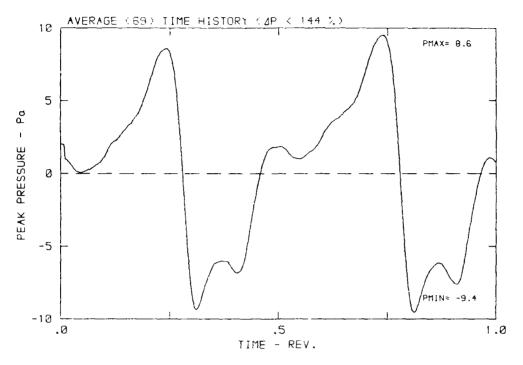


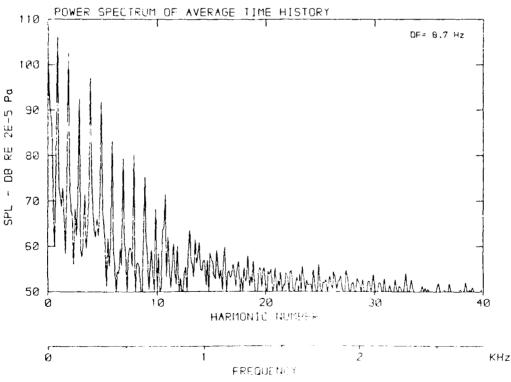
 β : 19.9° MH: .6745 n: 2100 npm v/u: .031 ϕ : 3.6° T: 287.5 K



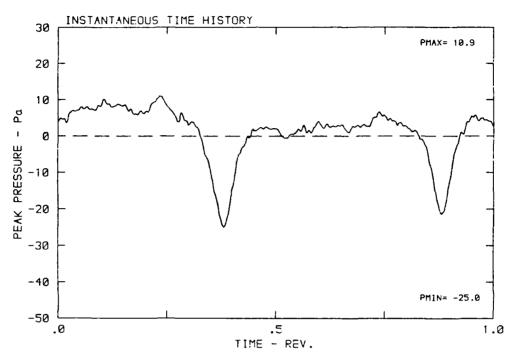


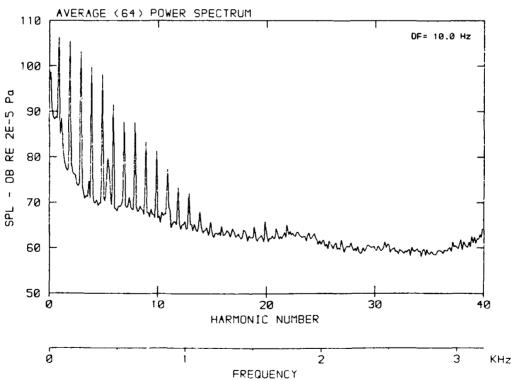
 β : 19.9° MH: .6745 n: 2100 npm v/u: .231 ϕ : 3.6° T: 287.5 k



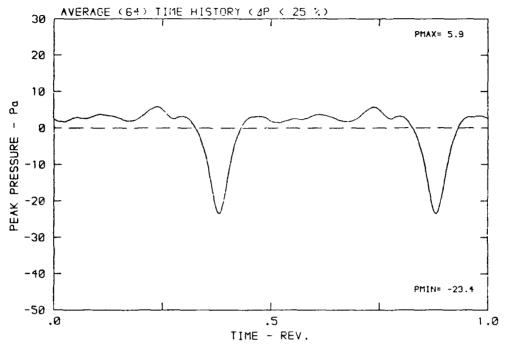


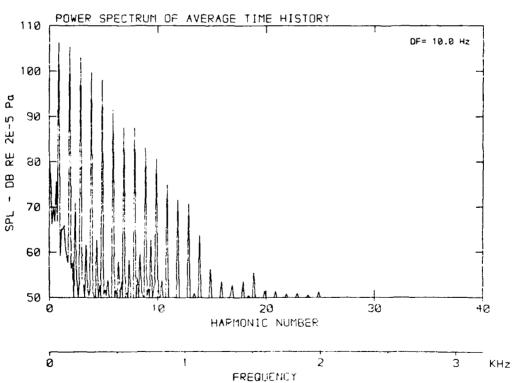
 β : 19.9° MH: .7655 n: 2400 rpm v/u: .202 ϕ : 3.6° T: 288.2 K



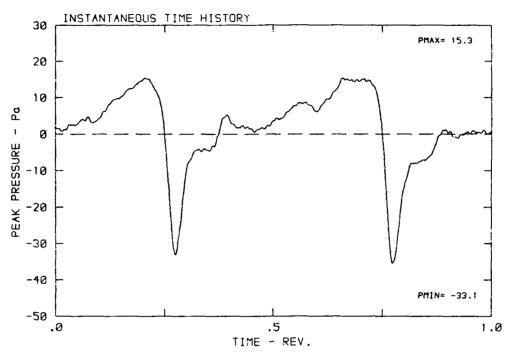


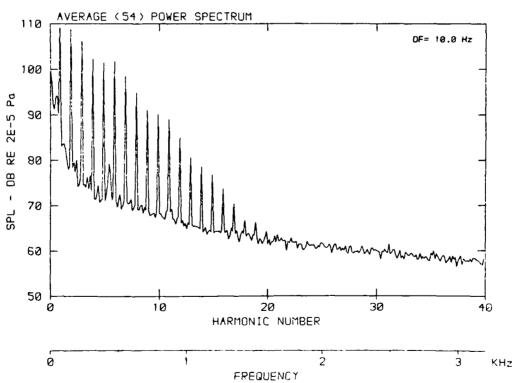
 $\beta: 19.9^{\circ}$ MH: .7655 n: 2400 rpm v/u: .202 $\phi: 3.6^{\circ}$ T: 288.2 K



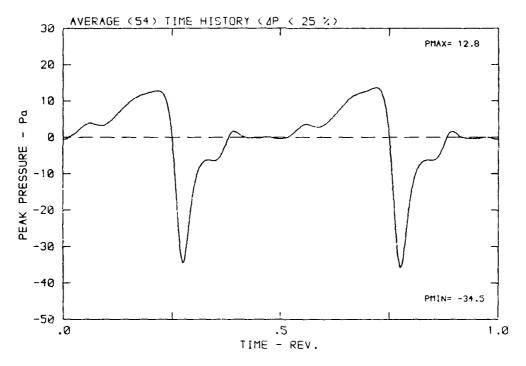


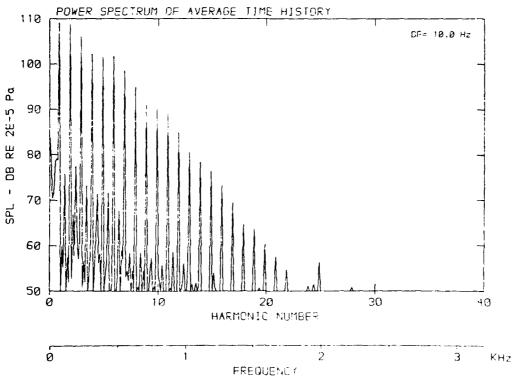
 $\beta\colon\,19.9^{o}\,$ MH: .7655 n: 2400 npm $\,$ v/u: .202 $\,$ $\varphi\colon\,3.6^{o}\,$ T: 288.2 K



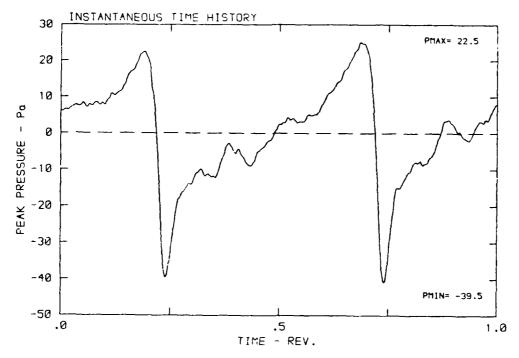


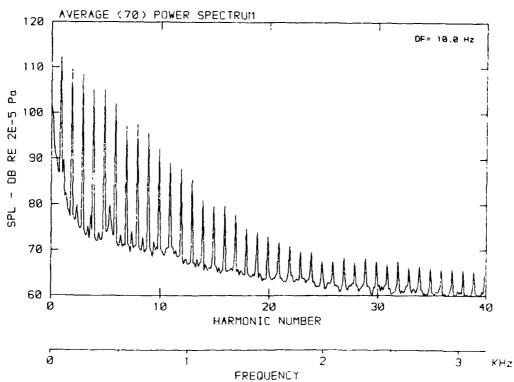
 β : 19.9° MH: .7655 n: 2400 rpm v/u: .202 ϕ : 3.6° T: 288.2 K





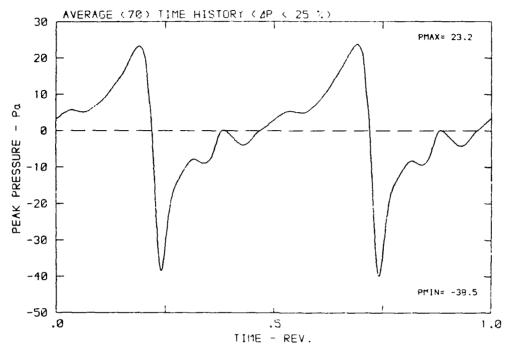
β: 19.9° MH: .7655 n: 2400 rpm v/u: .202 φ: 3.6° T: 288.2 κ

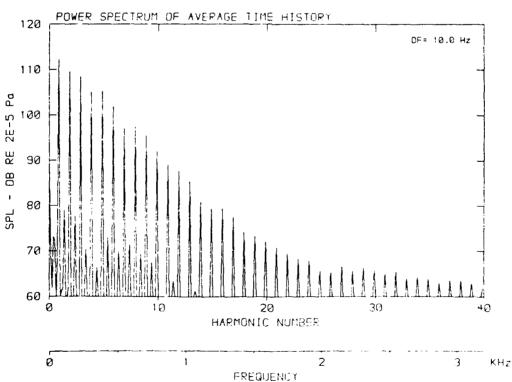




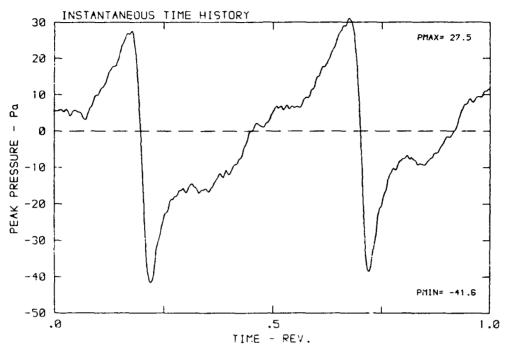
CHRISTIAN MANAGESSAN BESSESSE DEDINATION OF THE POPULATION NECESSARIES FOR

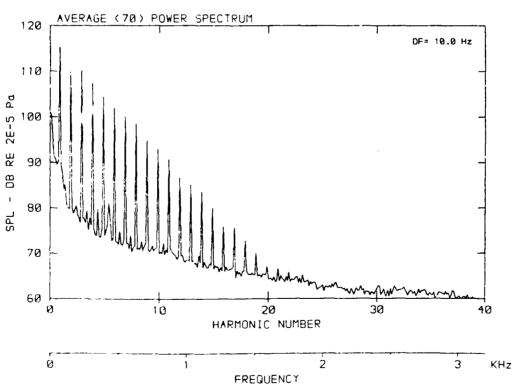
 β : 19.9° MH: .7655 n: 2400 rpm v/u: .202 ϕ : 3.6° T: 288.2 K



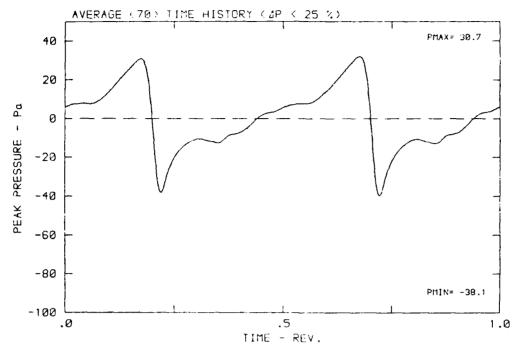


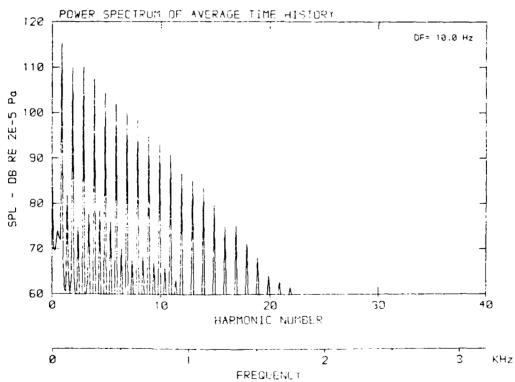
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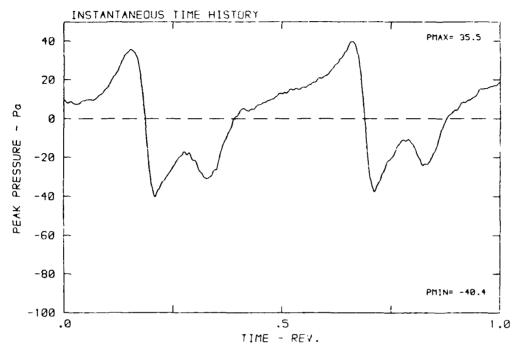


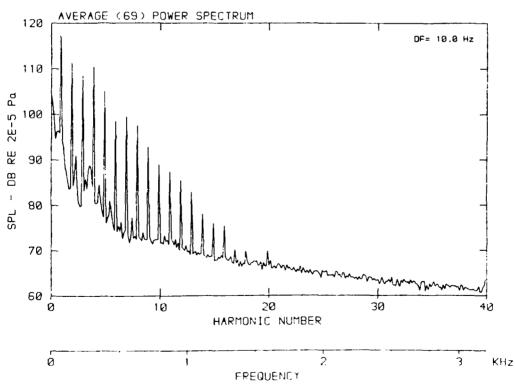
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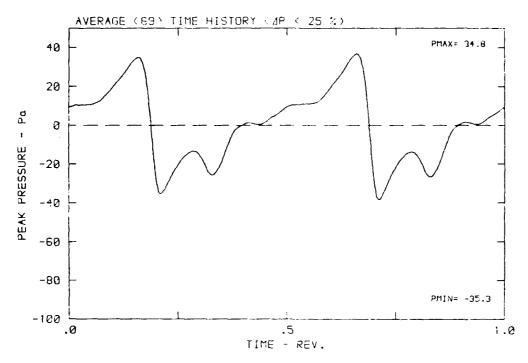


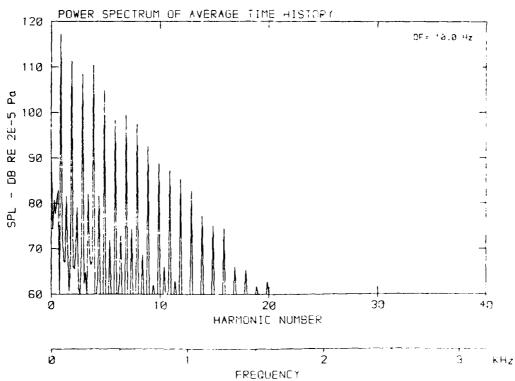
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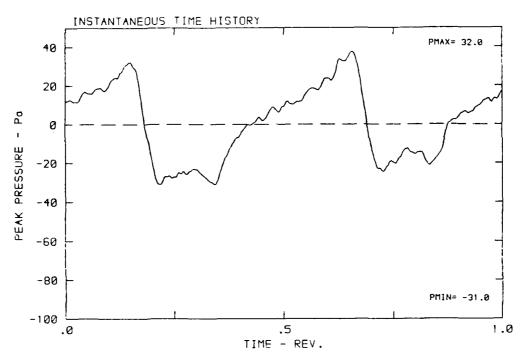


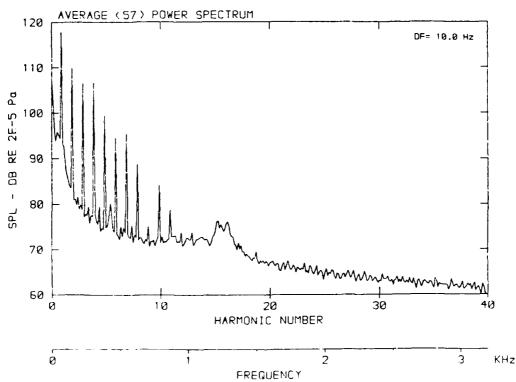
β: 19.9° MH: .7655 n: 2400 rpm ν/u: .202 φ: 3.6° T: 288.2 K



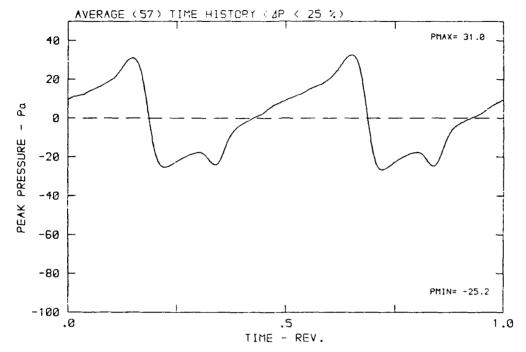


β: 19.9 MH: .7655 n: 2400 rpm ν/u: .202 φ: 3.6 T: 288.2 K

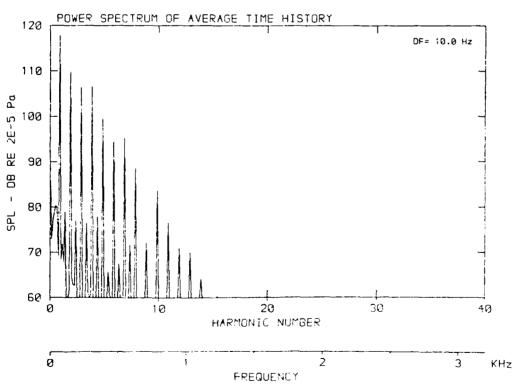




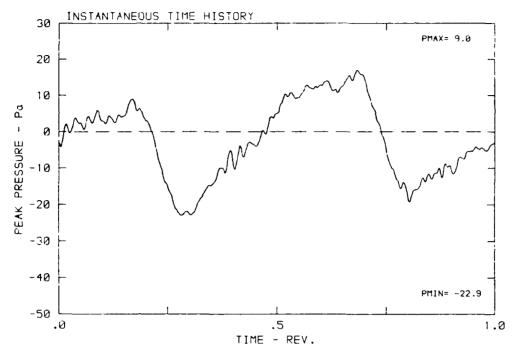
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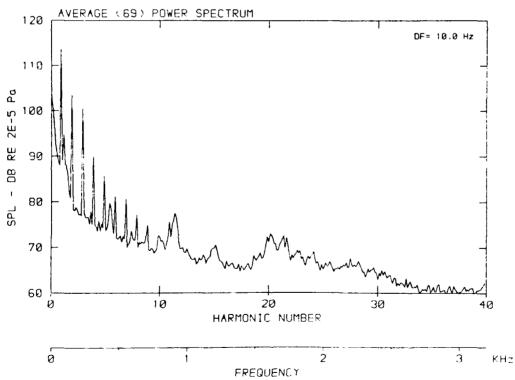


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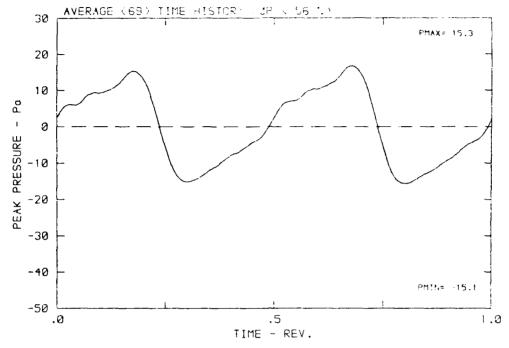


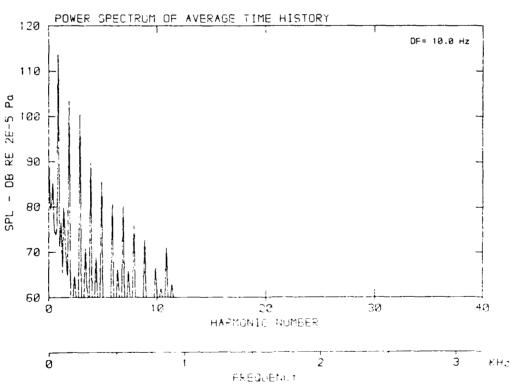
β: 19.9° MH: .7655 n: 2400 rpm - v/u: .202 - φ: 3.6° - Τ: 288.2 V





β: 19.9° MH: .7655 n: 2400 rpm v-u: .202 φ: 3.3° 1: 288.2 k





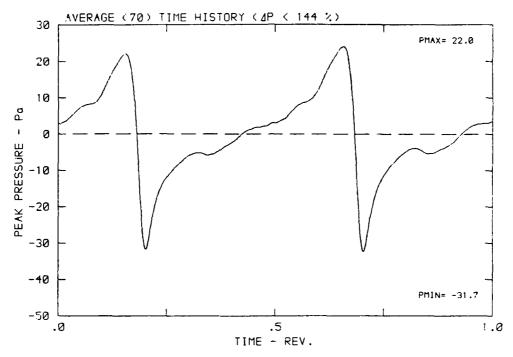
RIJN: $\beta: 19.9^{0}$ MH: .7655 n: 2400 rpm φ: 3.6° : 288.2 K INSTANTANEOUS TIME HISTORY 30 PMAX= 19.1 20 10 PEAK PRESSURE - Pu 0 -10 -20 -30 -40 PMIN= -36.1 ~50 .5 TIME - REV. 1.0 DF= 10.0 Hz SPL - 08 RE 2E-5 90 80 70 60 10 20 30 HARMONIC NUMBER ġ 2 3 KHz

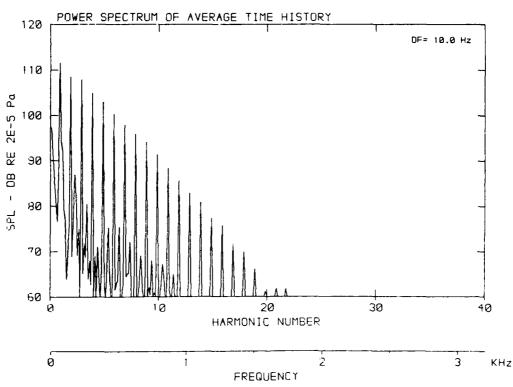
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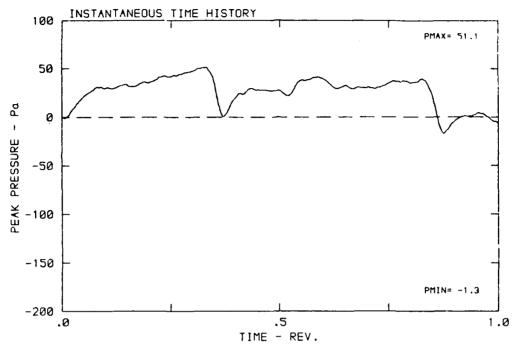
accounted services become and

 $\beta\colon\,19.9^{\circ}\,$ MH: .7655 n: 2400 rpm v/u: .202 $\varphi\colon\,3.6^{\circ}\,$ T: 288.2 K

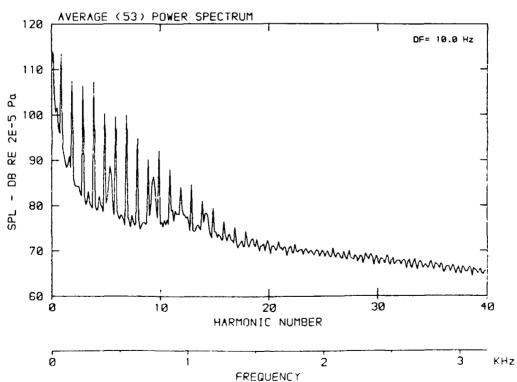




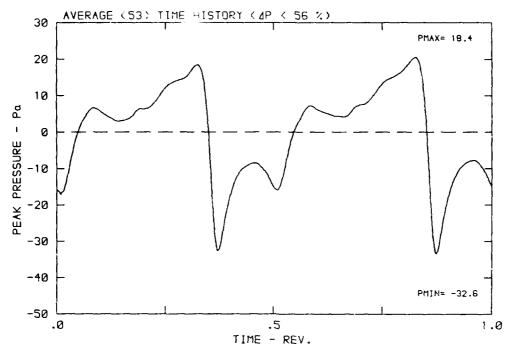
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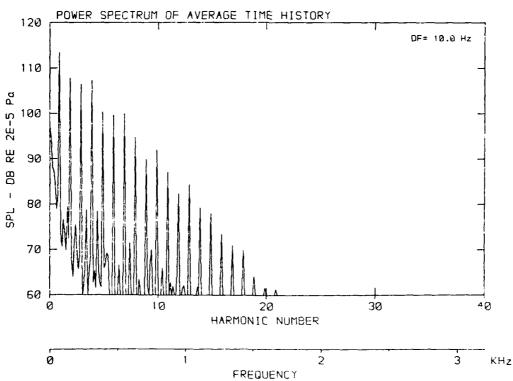


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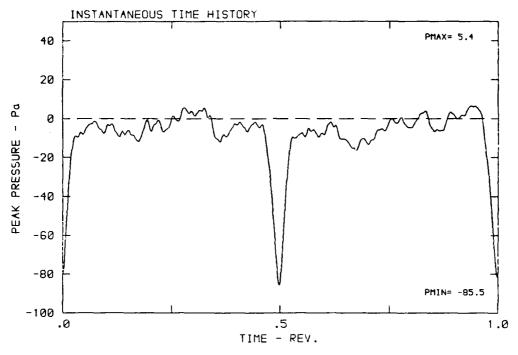


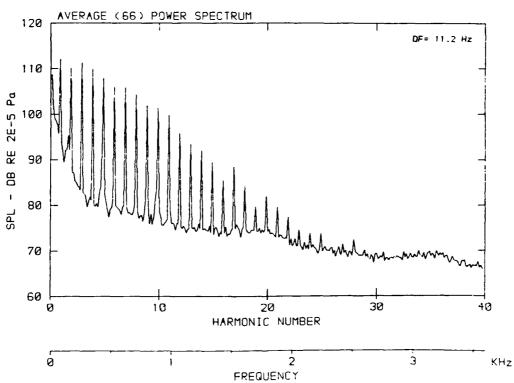
 β : 19.9° MH: .7655 n: 2400 rpm v/u: .202 ϕ : 3.6° T: 288.2 K



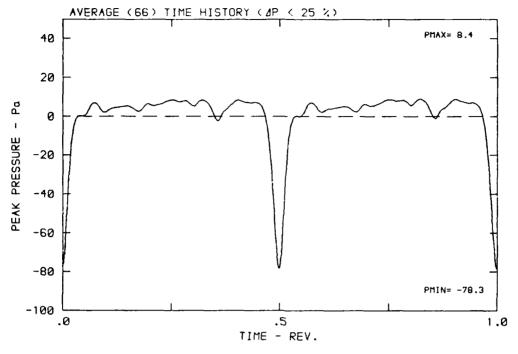


 β : 19.9° MH: .8740 n: 2700 rpm v/u: .269 ϕ : 3.6° T: 288.2 K

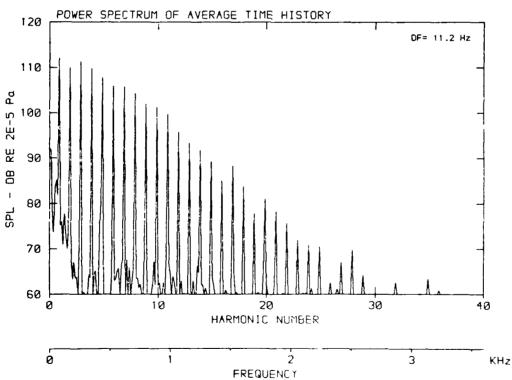




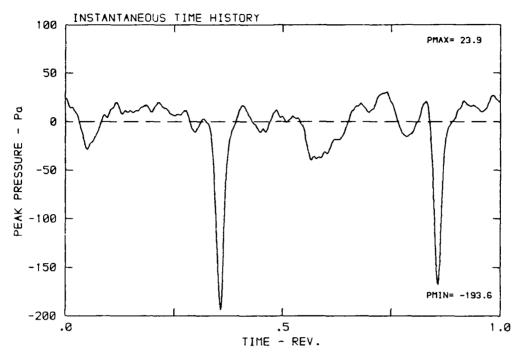
 β : 19.9° MH: .8740 n: 2700 rpm v/u: .269 ϕ : 3.6° T: 288.2 K



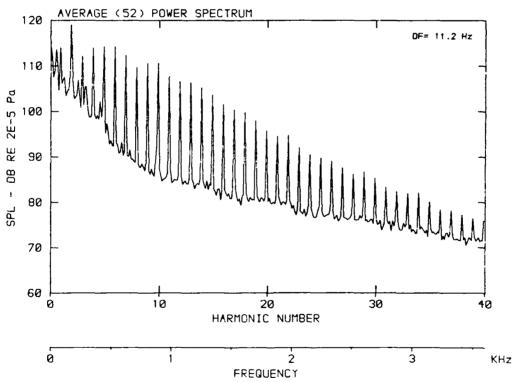
CONTRACTOR CONTRACTOR



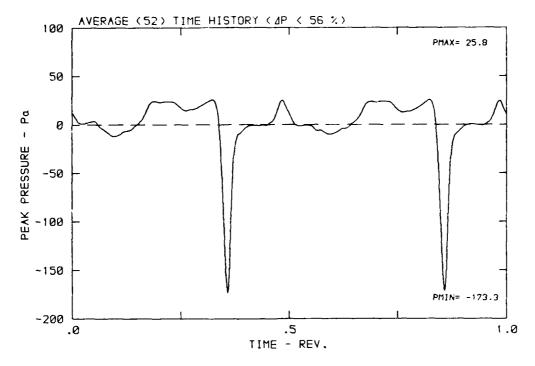
 $\beta\colon\,19.9^{\circ}\,$ MH: .8740 n: 2700 rpm v/u: .269 $\varphi\colon\,3.6^{\circ}\,$ T: 288.2 K



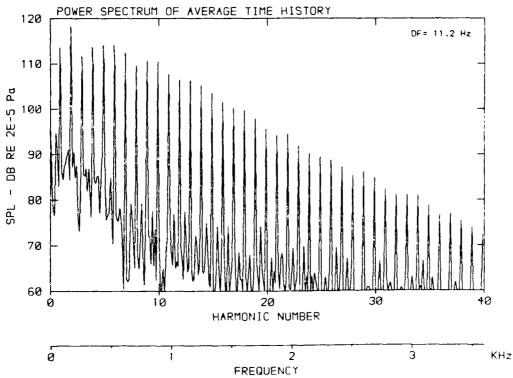
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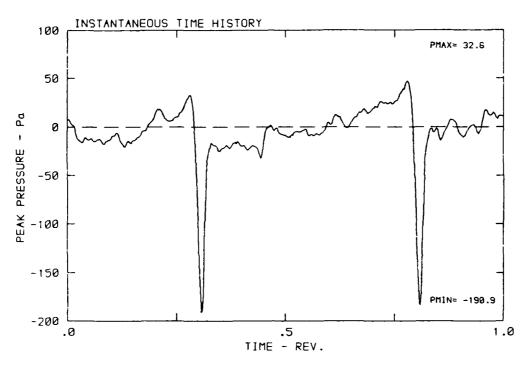
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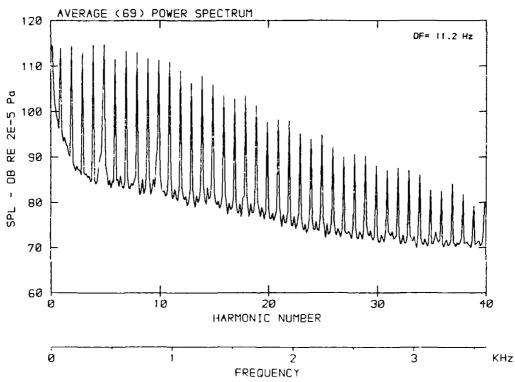


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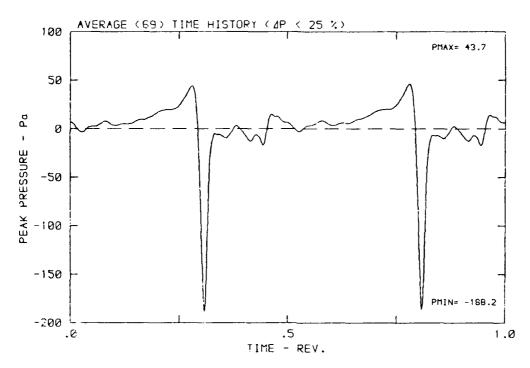


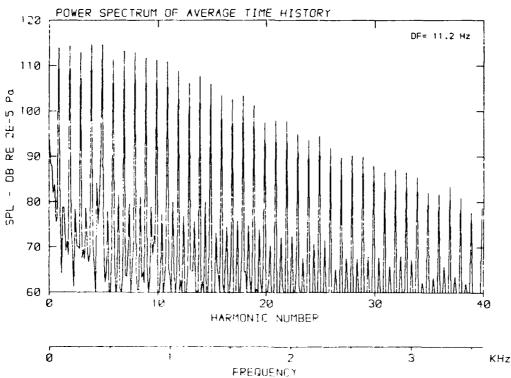
 β : 19.9° MH: .8740 n: 2700 rpm v/u: .269 ϕ : 3.6° T: 288.2 K



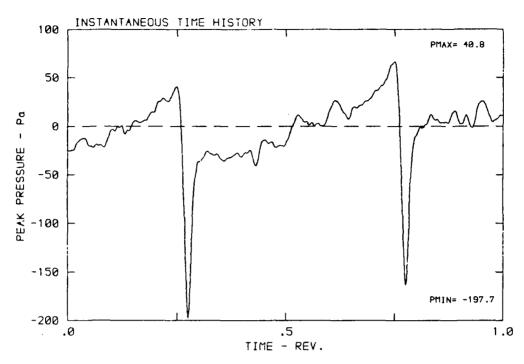


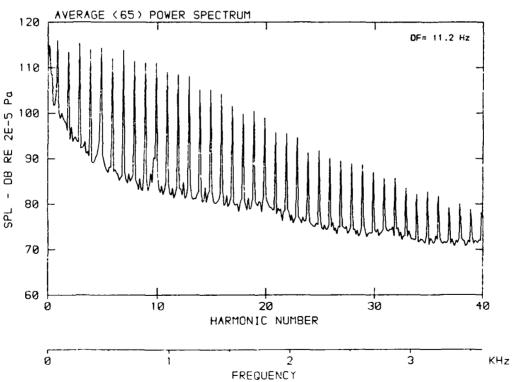
 β : 19.9° MH: .8740 n: 2700 rpm v/u: .269 ϕ : 3.6° T: 288.2 K



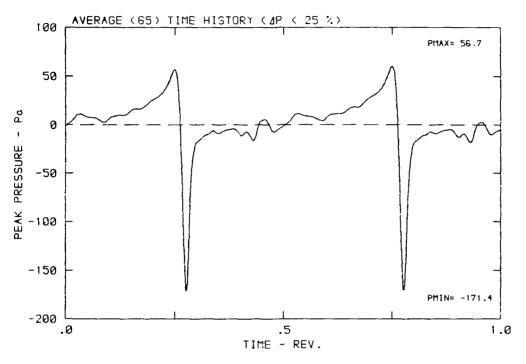


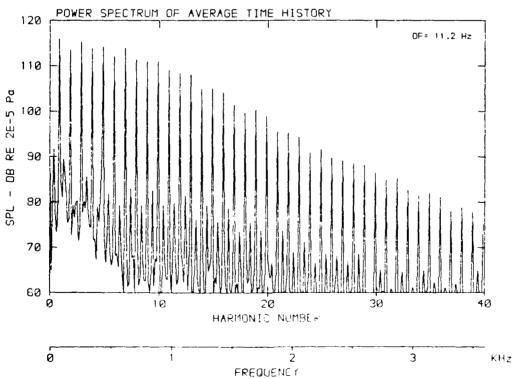
β: 19.9° MH: .8740 n: 2700 rpm ν/u: .269 φ: 3.6° T: 288.2 K



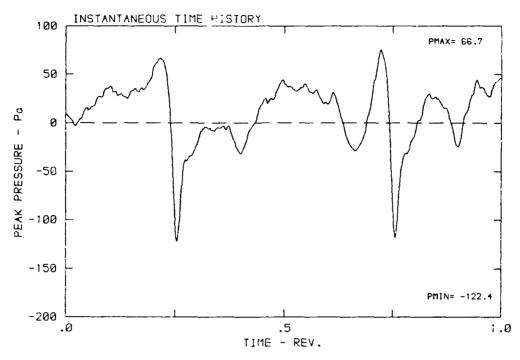


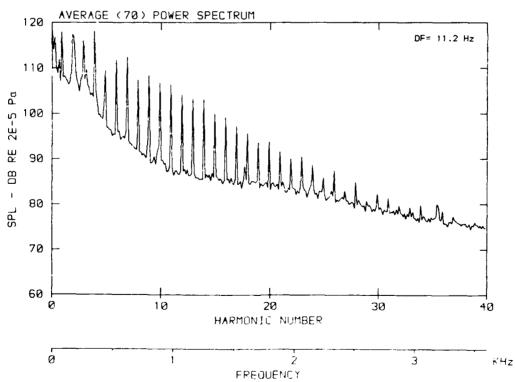
 β : 19.9° MH: .8740 n; 2700 rpm v/u: .269 ϕ : 3.6° T; 288.2 K



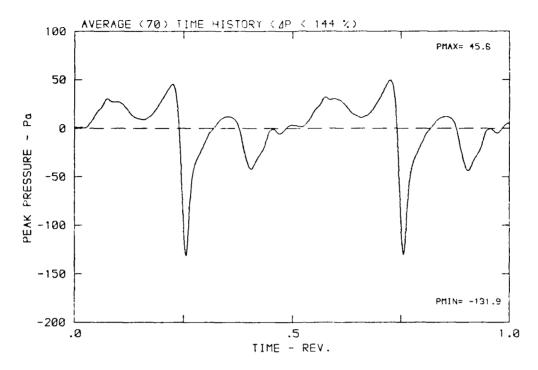


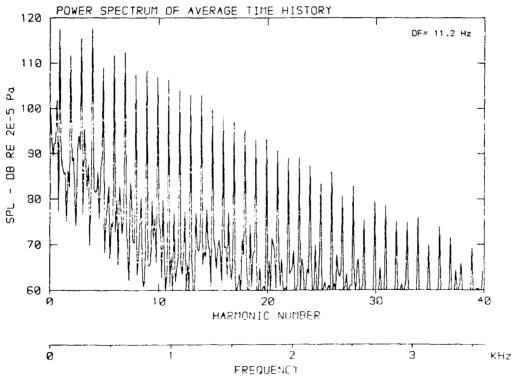
 $\beta: 19.9^{\circ}$ MH: .8740 n: 2700 rpm v/u: .269 $\psi: 3.6^{\circ}$ T: 288.2 K



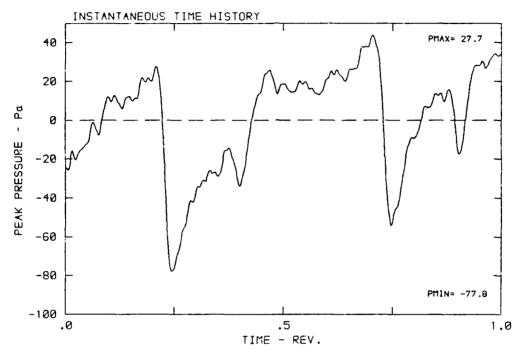


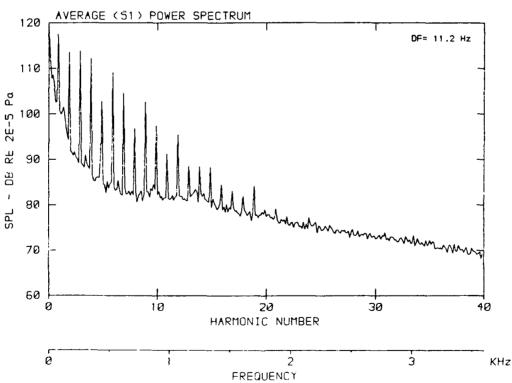
 β : 19.9° MH: .8740 n: 2700 rpm v/u: .269 ϕ : 3.6° T: 288.2 K



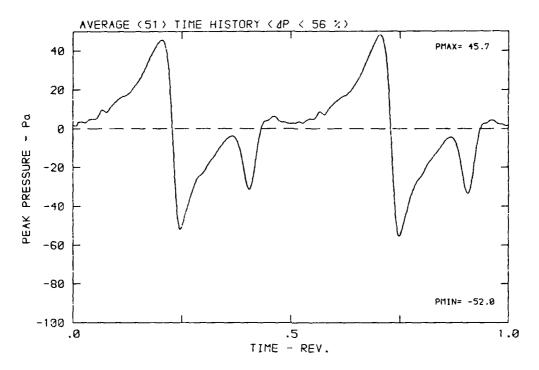


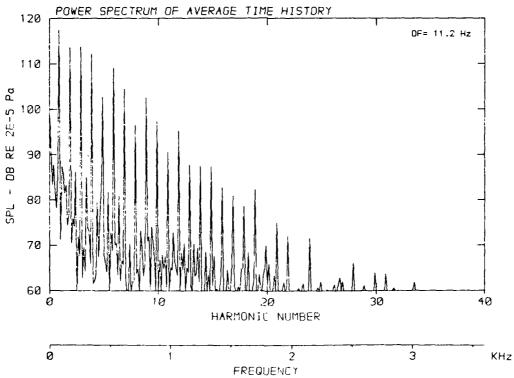
 β : 19.9° MH: .8740 n: 2700 rpm v/u: .269 ϕ : 3.6° T: 288.2 K



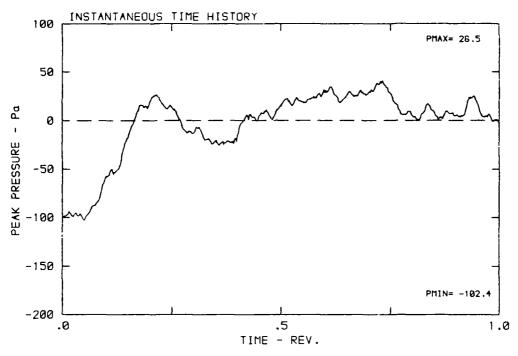


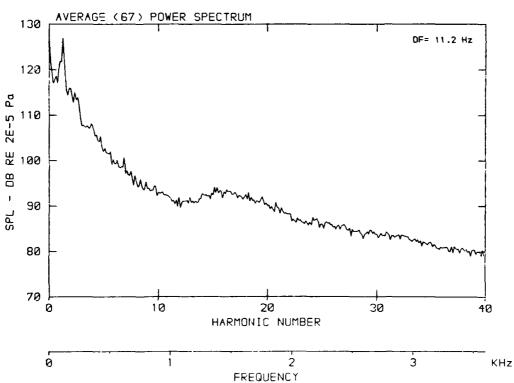
 $\beta\colon\,19.9^{\circ}\,$ MH: .8740 n: 2700 rpm v/u: .269 $\varphi\colon\,3.6^{\circ}\,$ T: 288.2 K



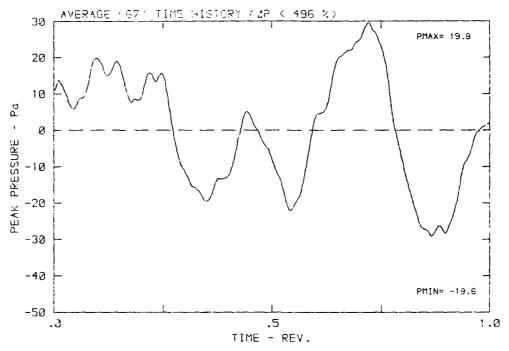


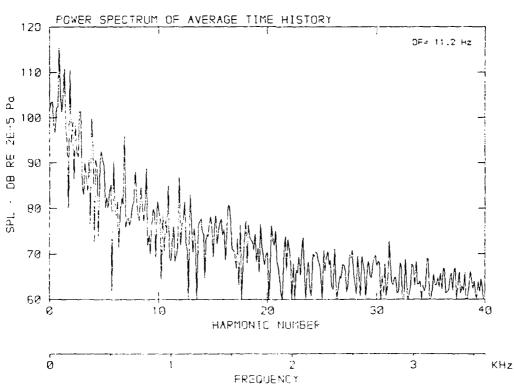
 β : 19.9° MH: .8740 n: 2700 rpm v/u: .269 ϕ : 3.6° T: 288.2 K



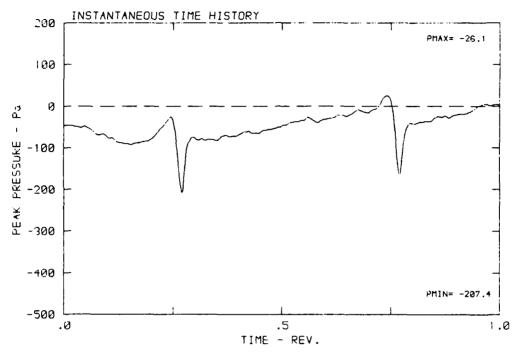


β: 19.9° MH: .3740 h: 2700 hpm v/u: .269 $\text{ }\phi$: 3.6° T: 288.2 K

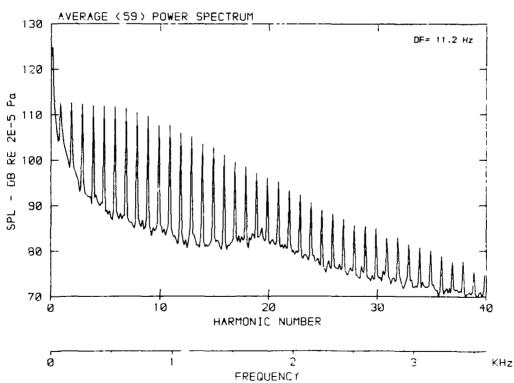




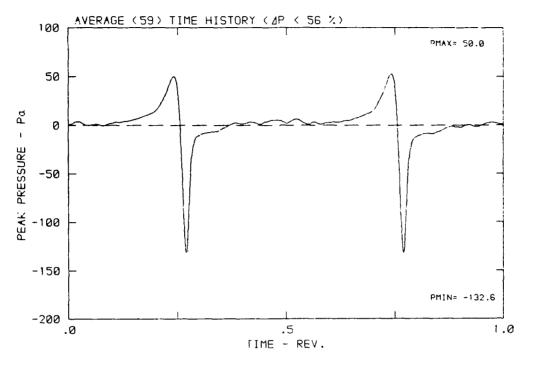
p: 19.9° MH: .8740 n: 2700 rpm ν/u: .269 φ: 3.6° T: 288.2 K

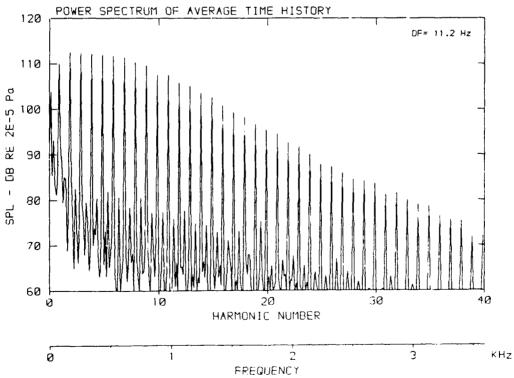


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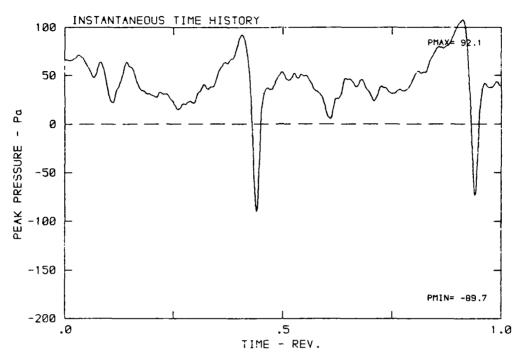


 β : 19.9° MH: .8740 n: 2700 npm $\mbox{v/u}$: .269 $\mbox{\phi}$: 3.6° T: 288.2 K

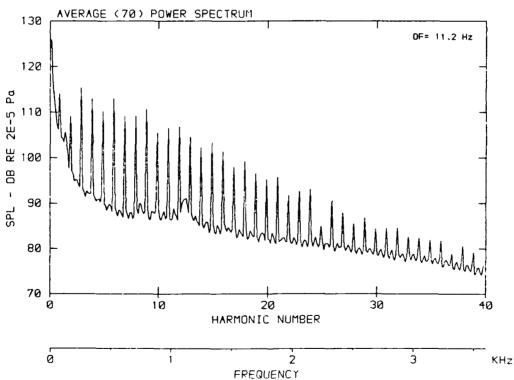




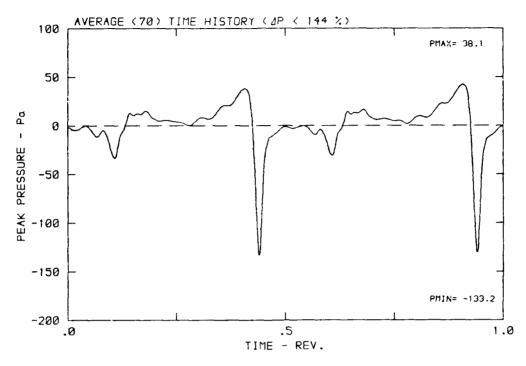
 $\beta\colon\,19.9^{\circ}\,$ MH: .8740 n: 2700 rpm v/u: .269 $\varphi\colon\,3.6^{\circ}\,$ T: 288.2 K

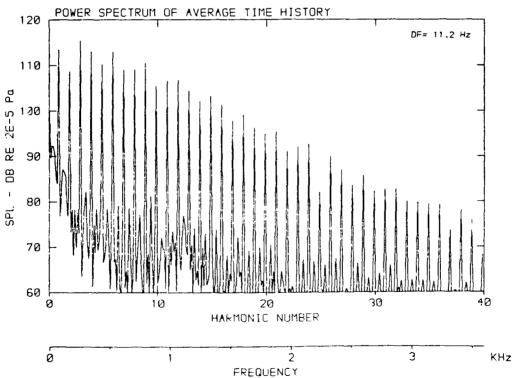


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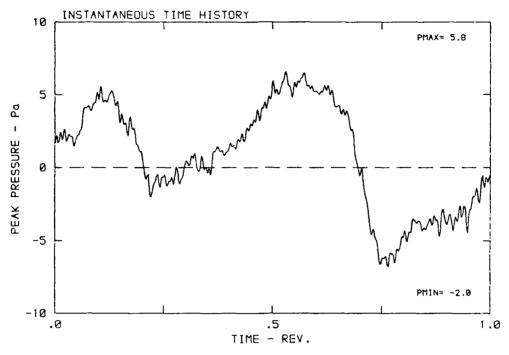


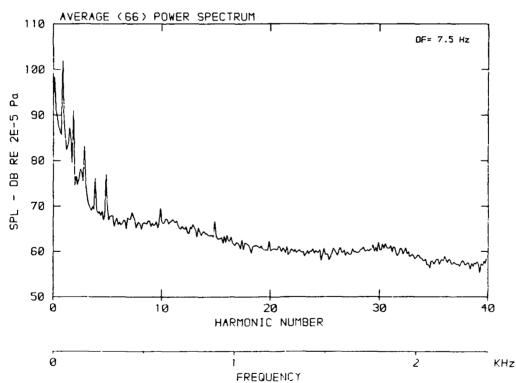
 β : 19.9° MH: .8740 n: 2700 rpm v/u: .269 ϕ : 3.6° T: 288.2 K

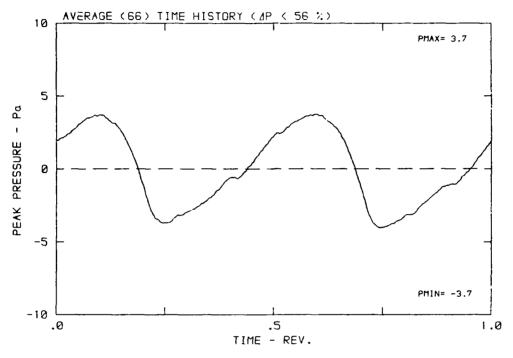


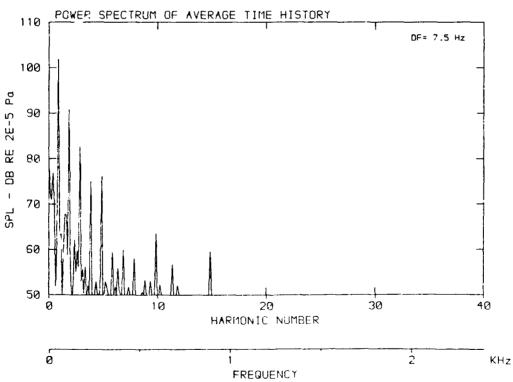


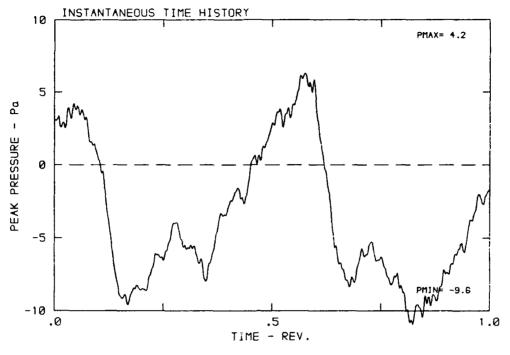
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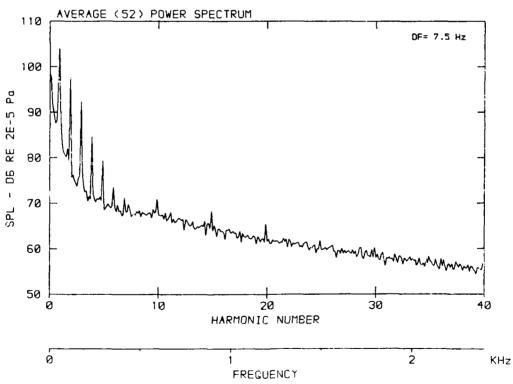


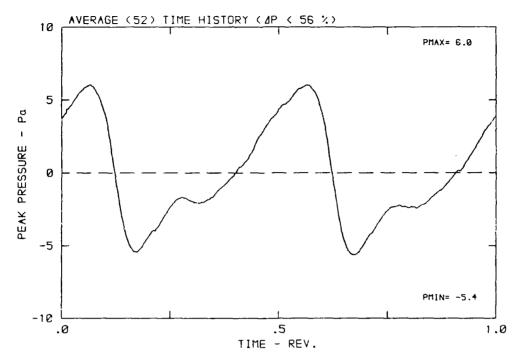


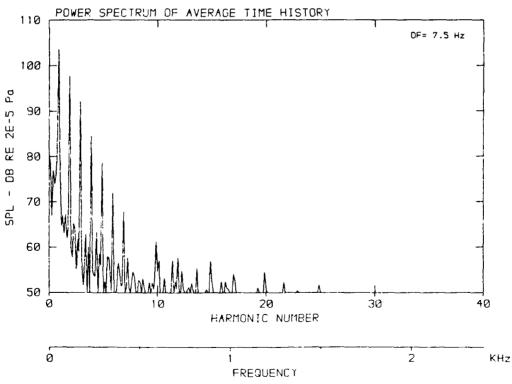


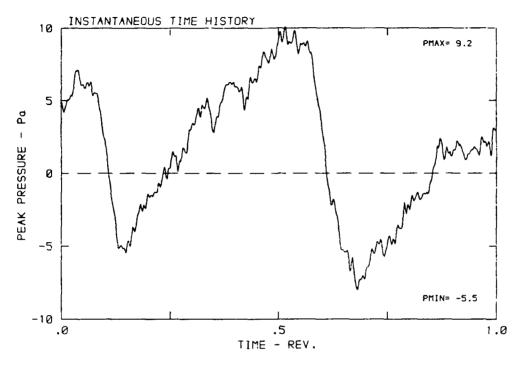


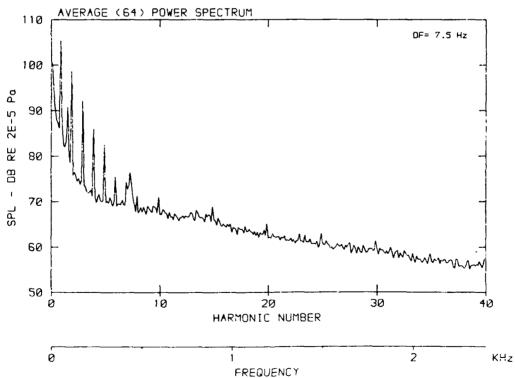


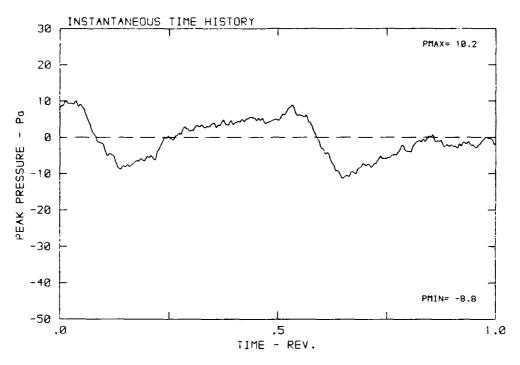


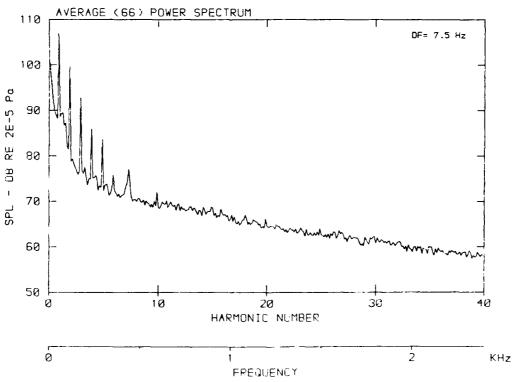




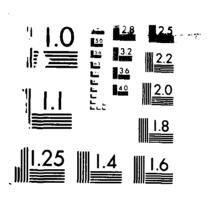




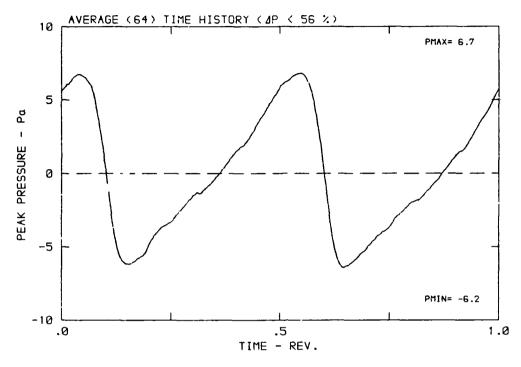


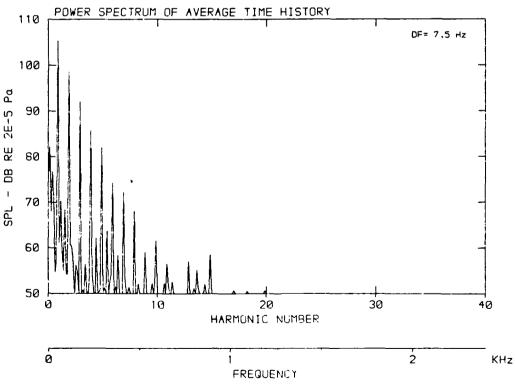


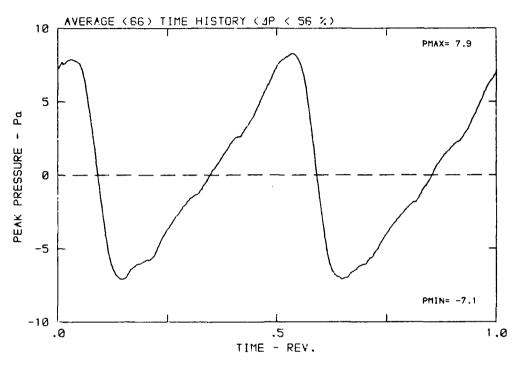
DFYLR/FAR (DEUTSCHE FORSCHUNGS-UND VERSUCHSANSTALT FUER LUFT UND RAUMFAHR.. (U) DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMF.. N DOBRZYMSKI ET AL. 1986 F/G 20/1 AD-A174 988 4/6 UNCLASSIFIED NL

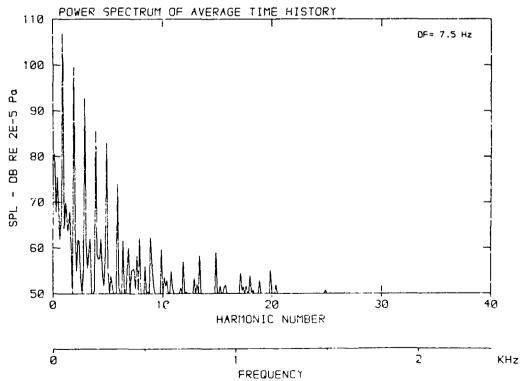


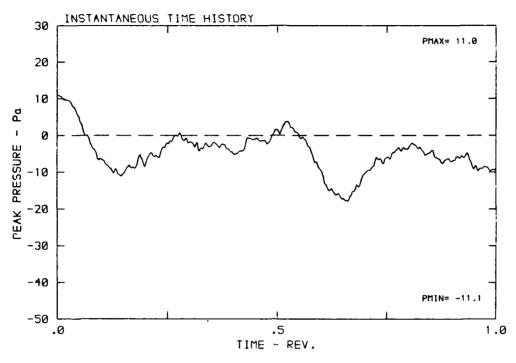
PROPERTY RESOLUTION TEST CHART.

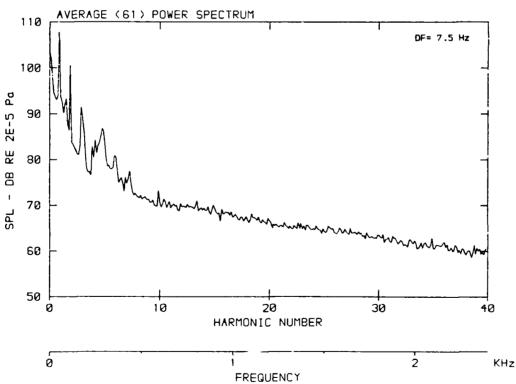


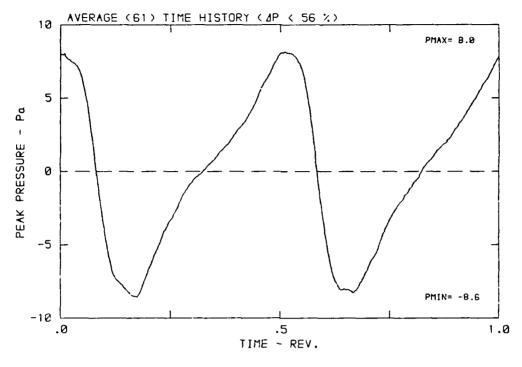


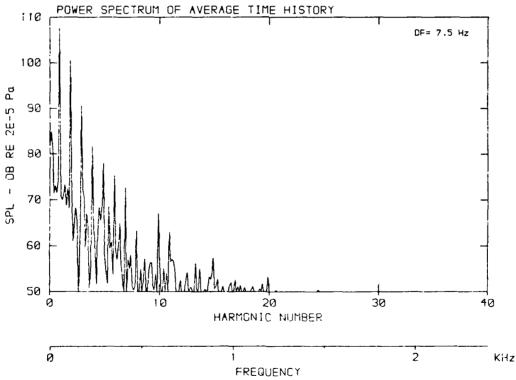


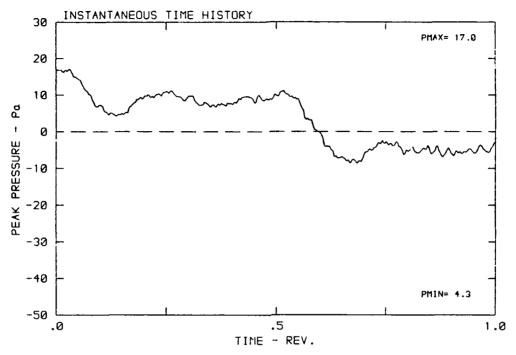


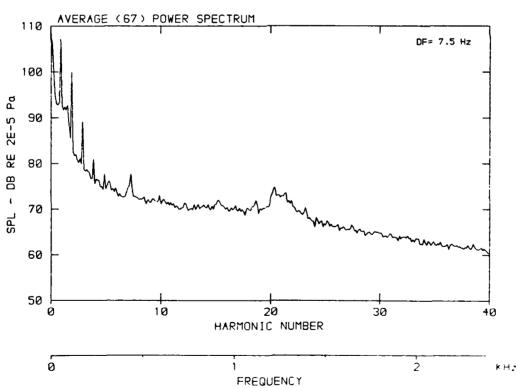


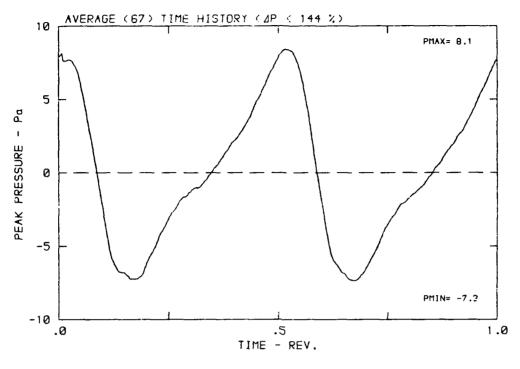


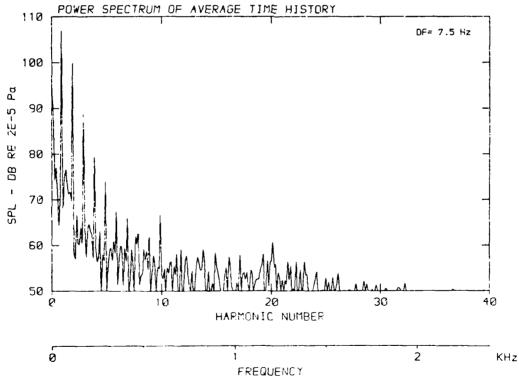




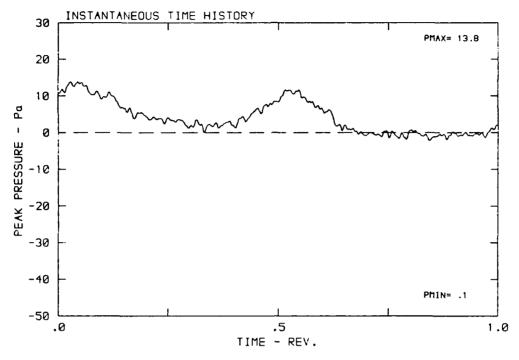


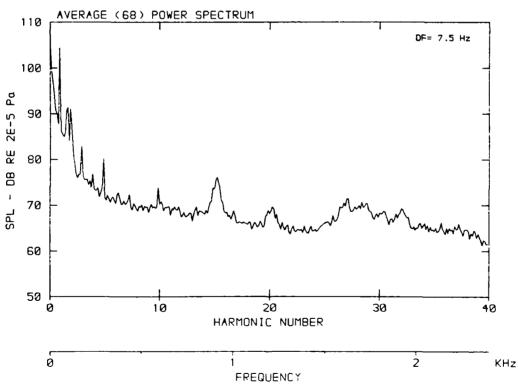


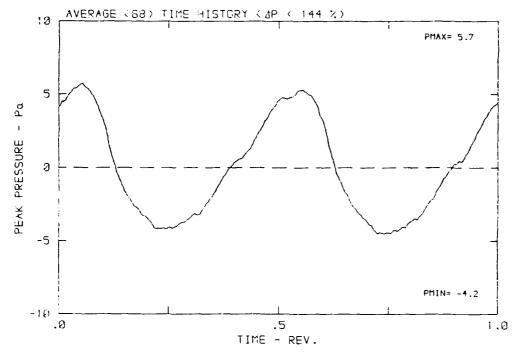


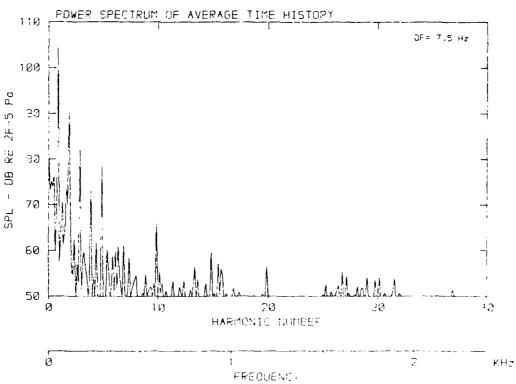


 $β: 23.7^{\circ}$ MH: .5832 n: 1800 rpm ν/u: .266 $φ: 3.6^{\circ}$ T: 287.3 K

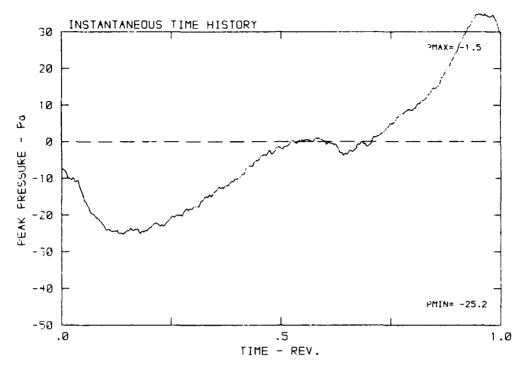


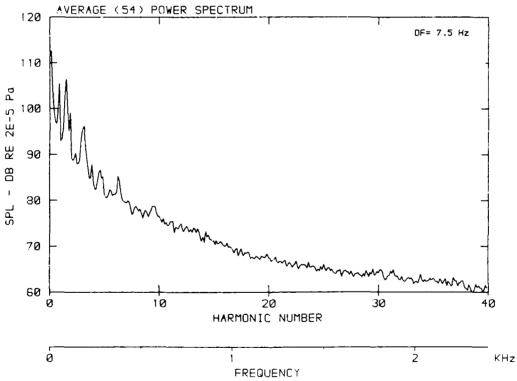




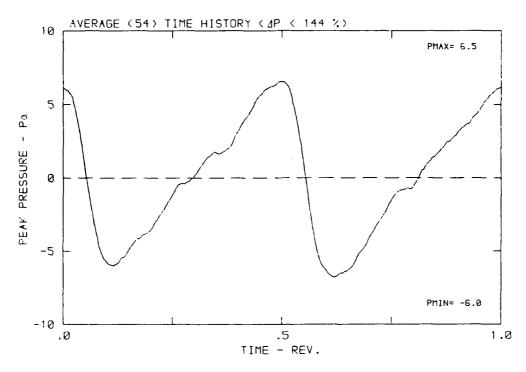


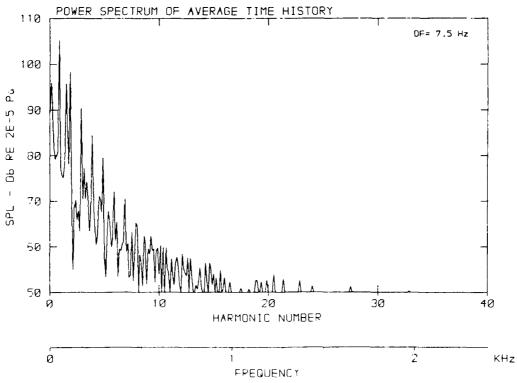
 β : 23.7° MH: .5832 n: 1800 rpm v/u: .266 ϕ : 3.6° T: 287.3 K

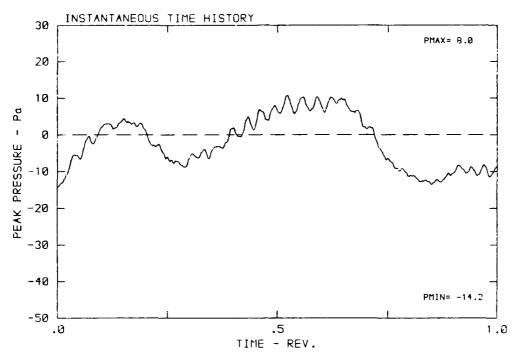


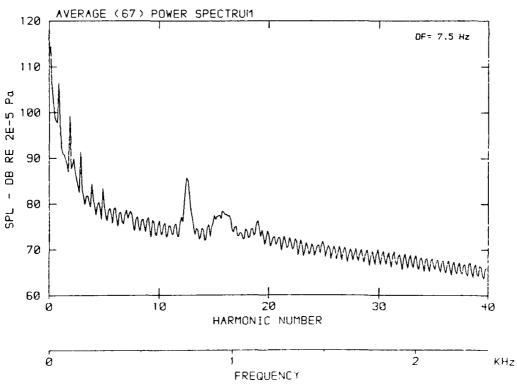


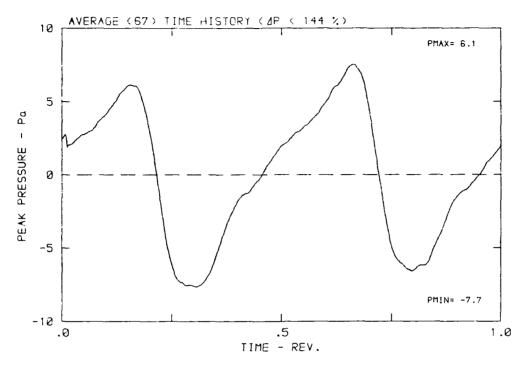
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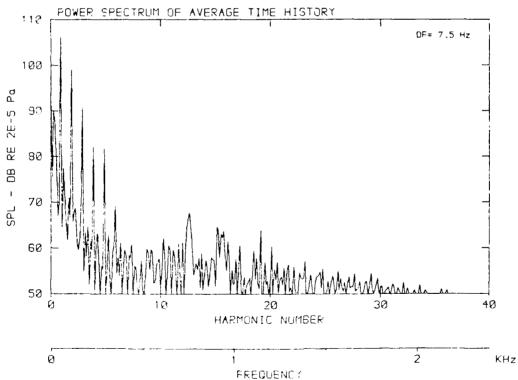


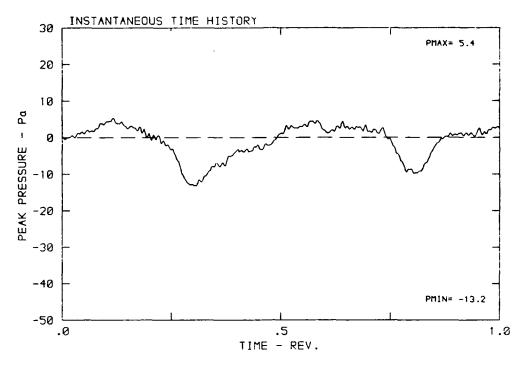


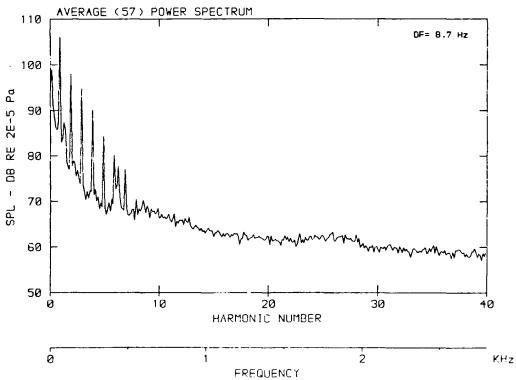


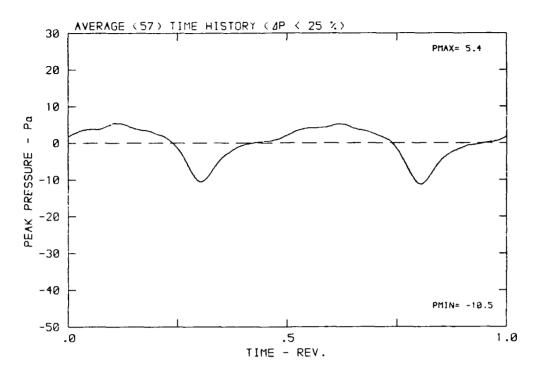


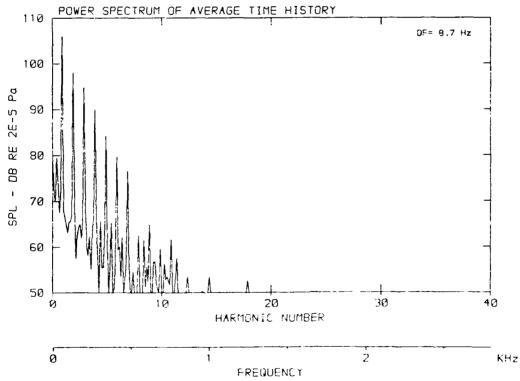


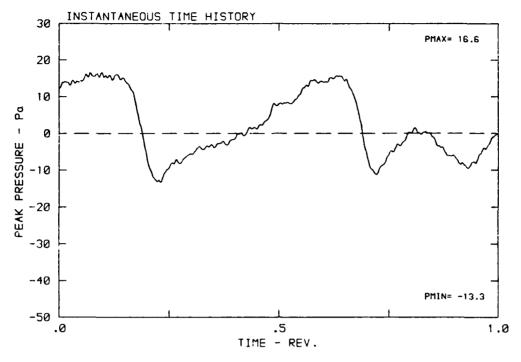


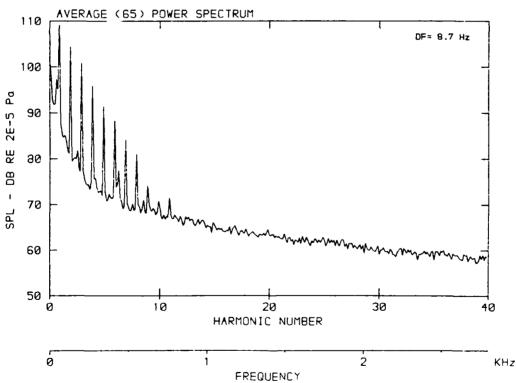


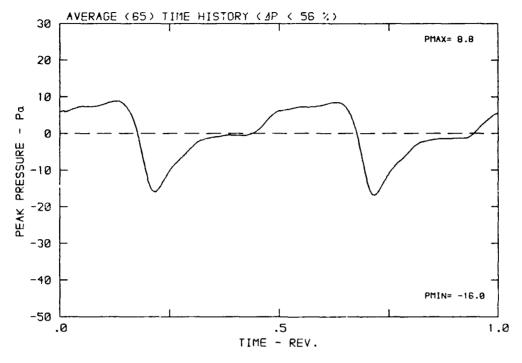


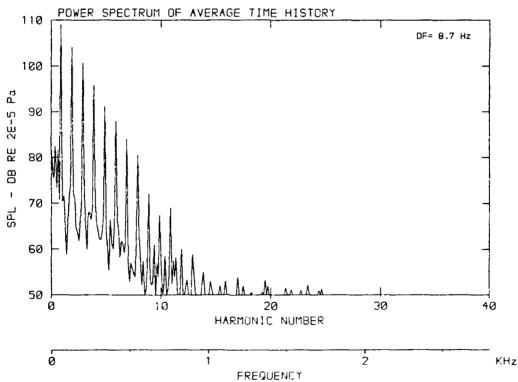




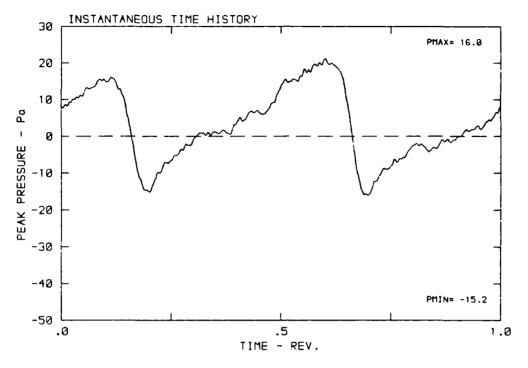


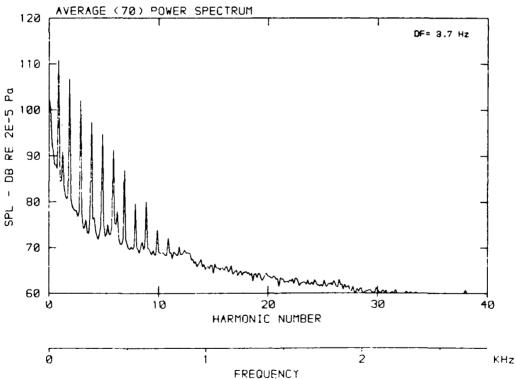


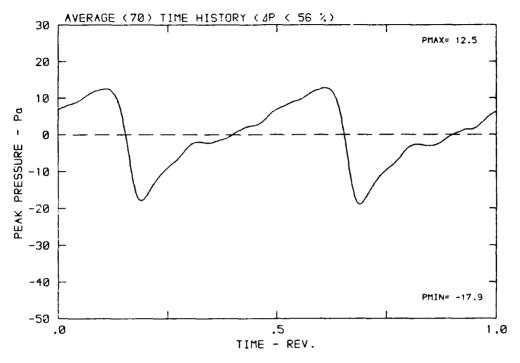


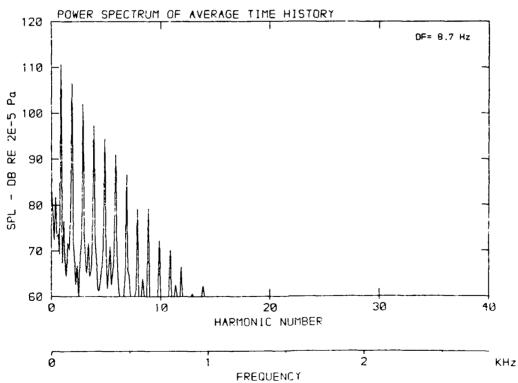


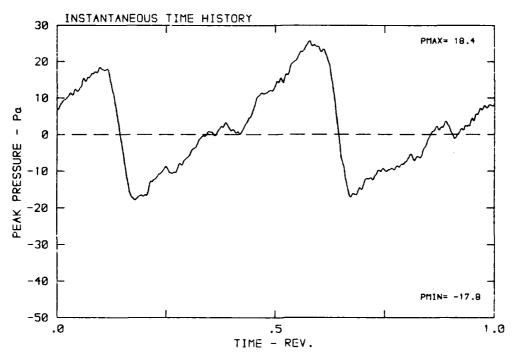
β: 23.7° MH: .6739 n: 2100 rpm v/u: .231 φ: 3.6° T: 288.0 K

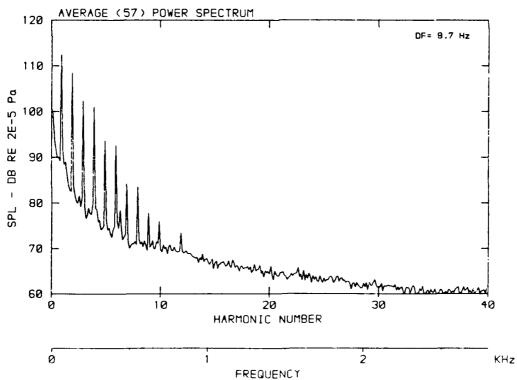




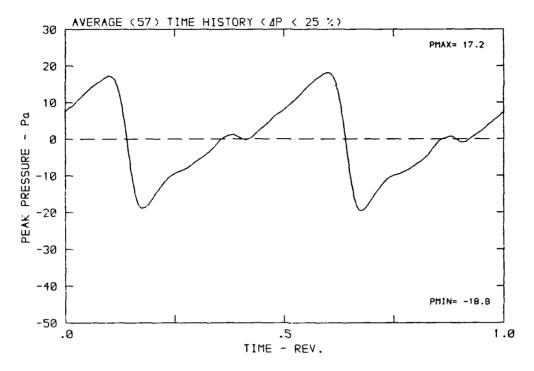


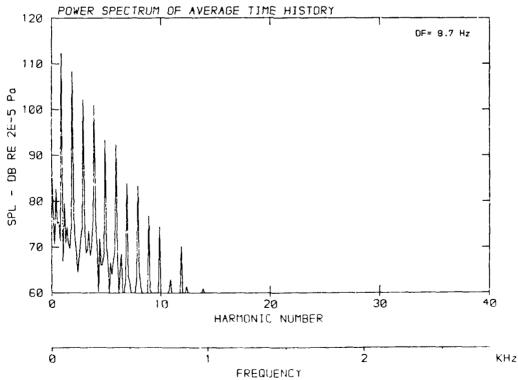


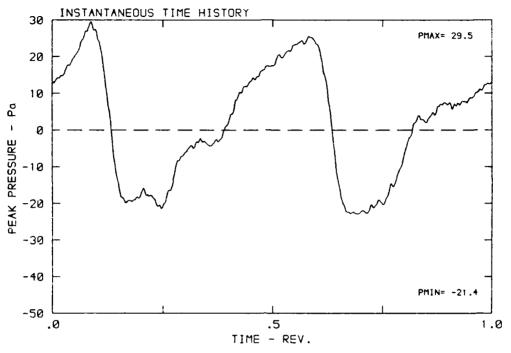


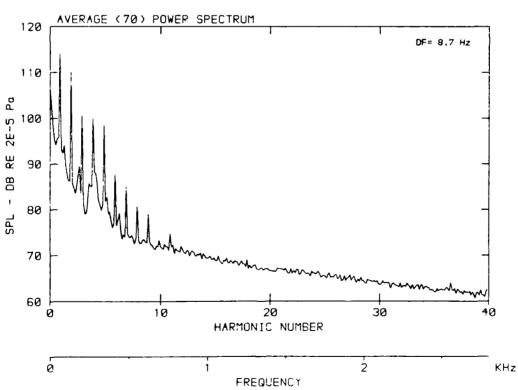


β: 23.7° MH: .6739 n: 2100 rpm ν/u: .231 φ: 3.6° T: 288.0 K

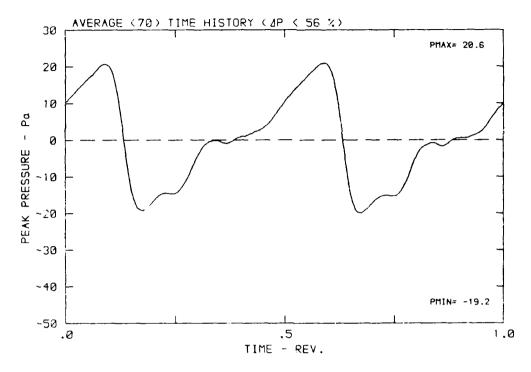


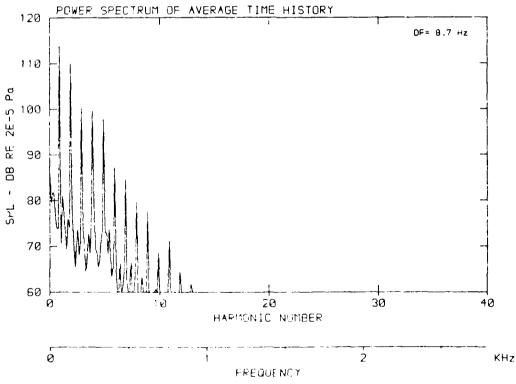




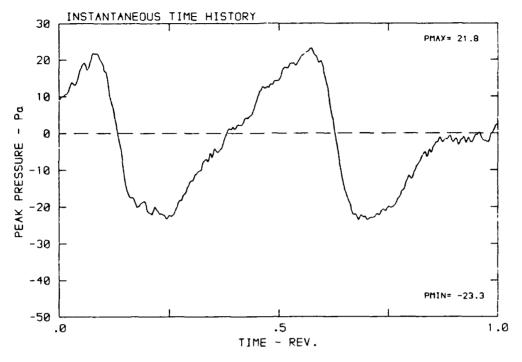


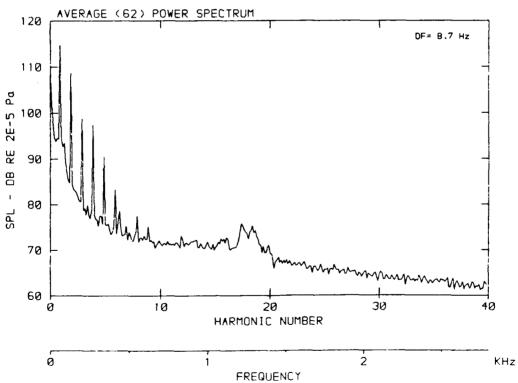
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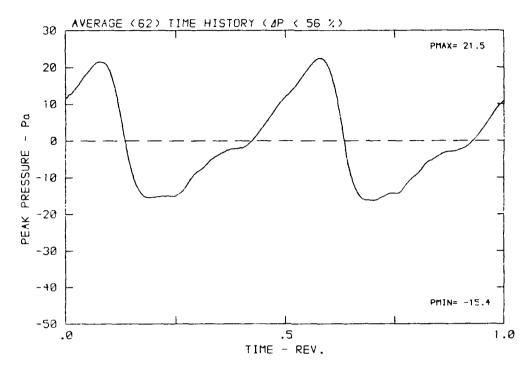


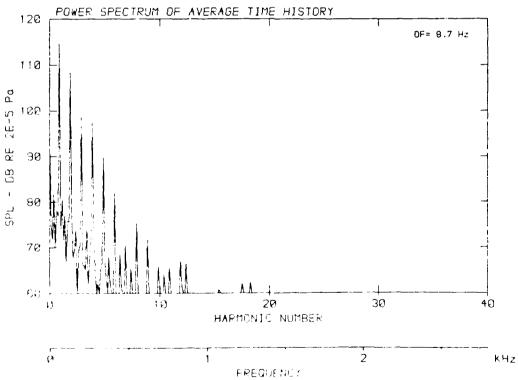
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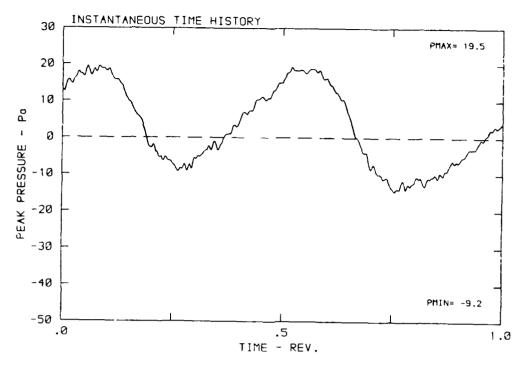
β: 23.7° MH: .6739 n: 2100 rpm ν/u: .231 φ: 3.6° T: 288.0 K

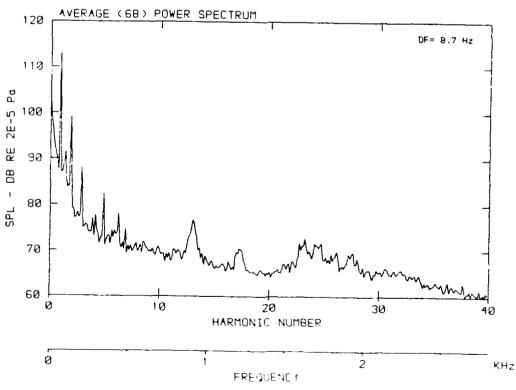




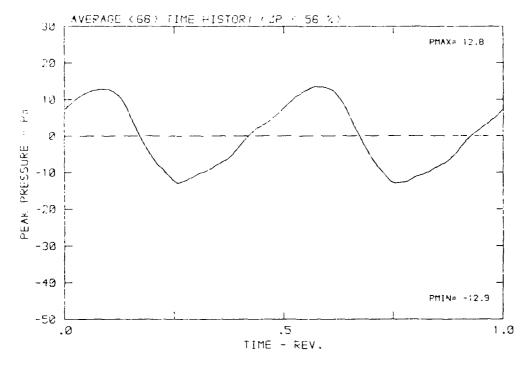


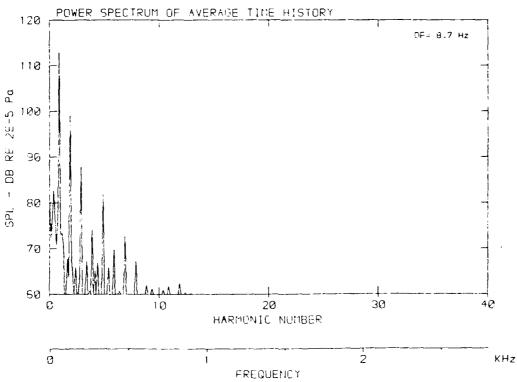


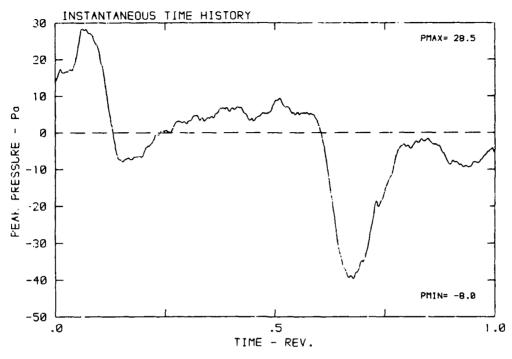


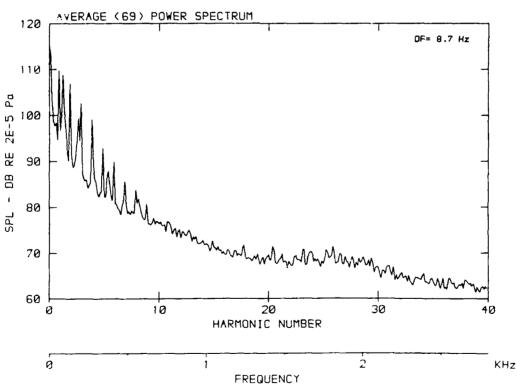


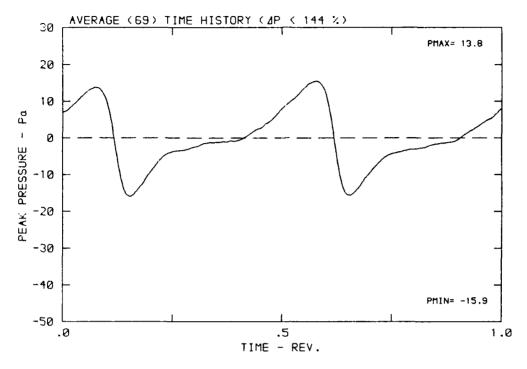
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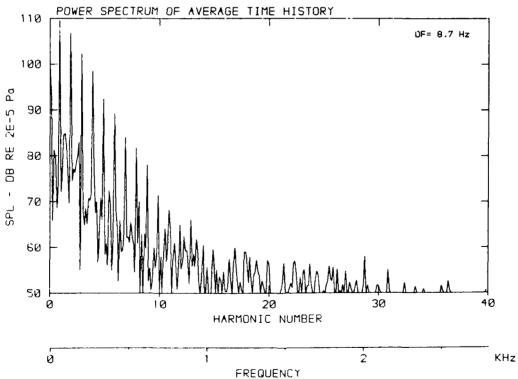




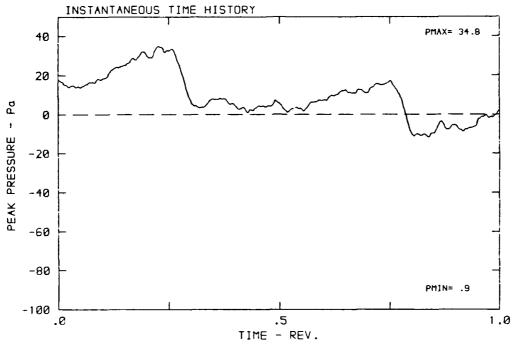


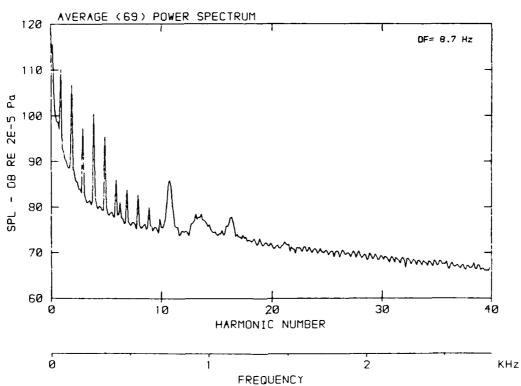




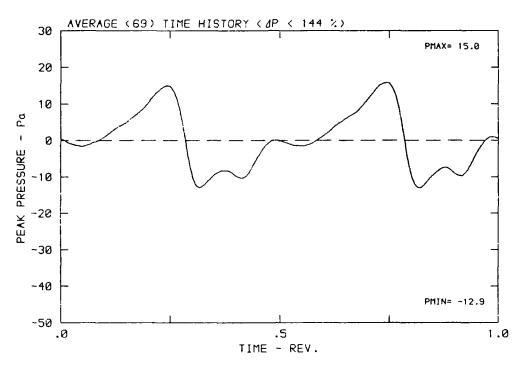


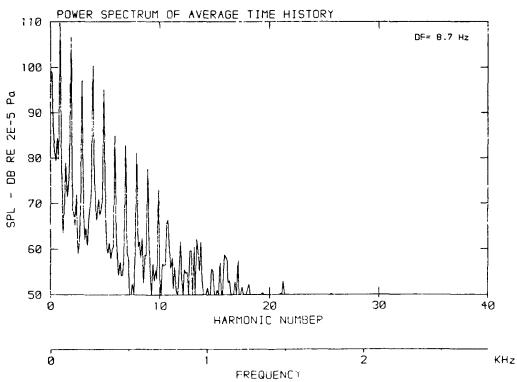
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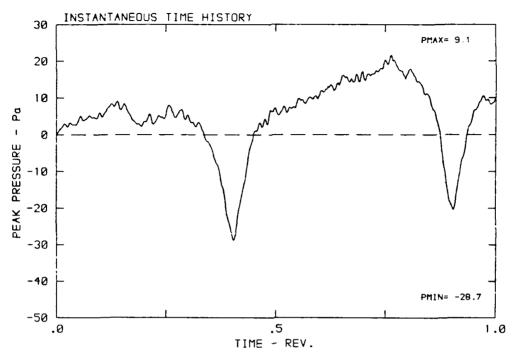


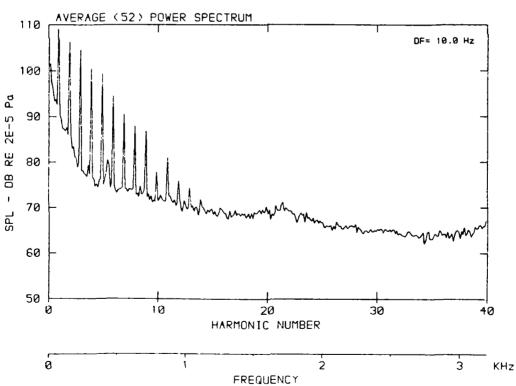


 $\beta\colon 23.7^{\circ}$ MH: .6739 n: 2100 rpm v/u: .231 $\varphi\colon 3.6^{\circ}$ T: 288.0 K

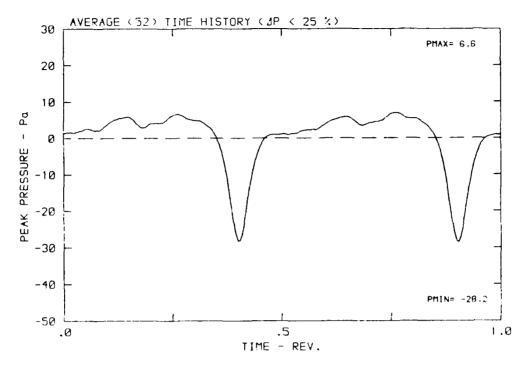


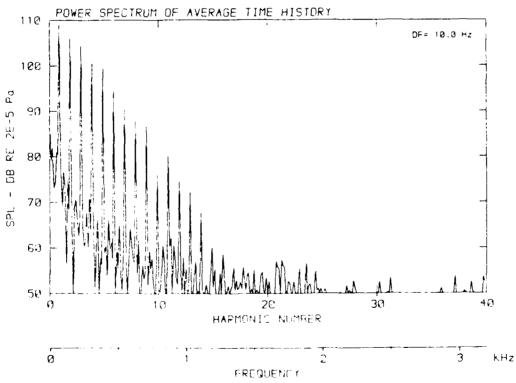




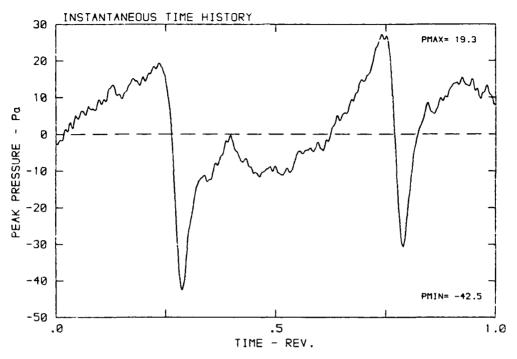


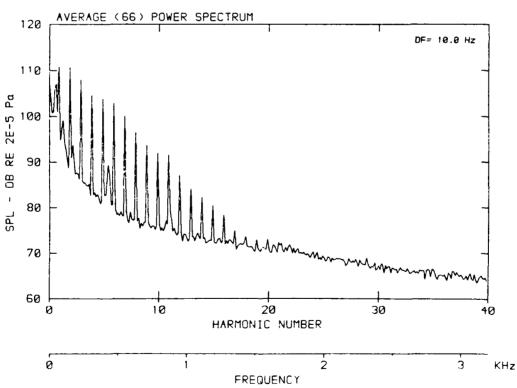
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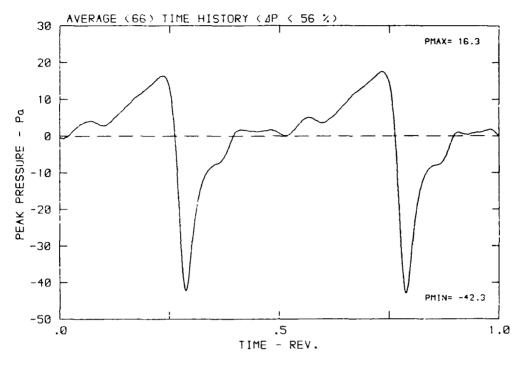


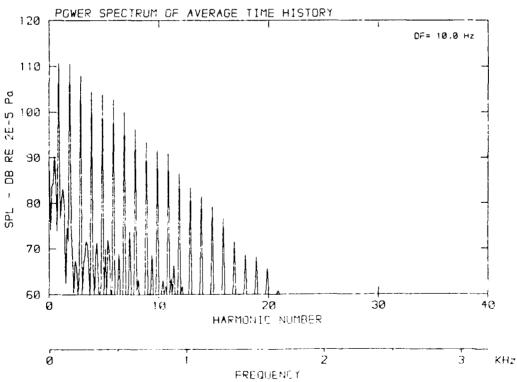


β: 23.7° MH: .7756 n: 2400 rpm v/u: .264 φ: 3.6° T: 288.4 K

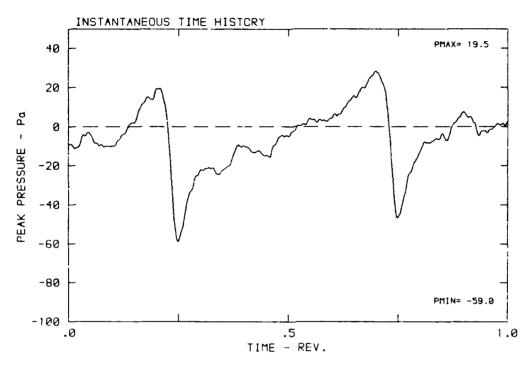


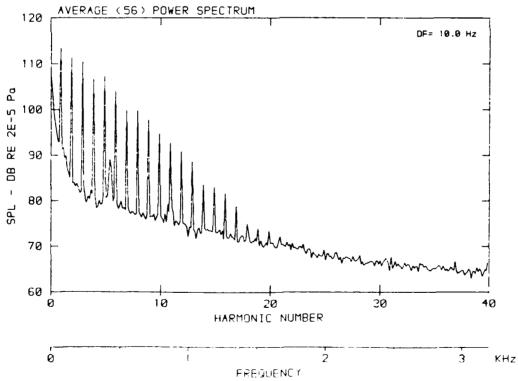


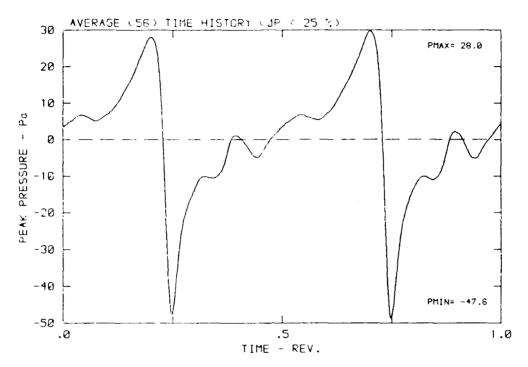


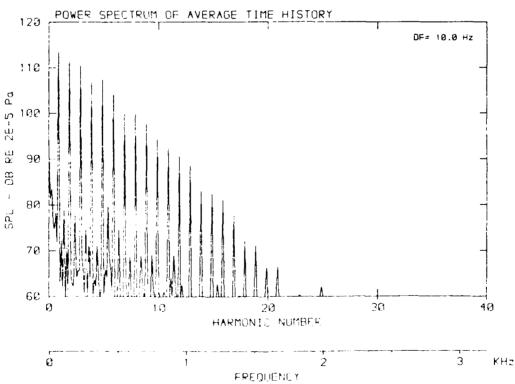


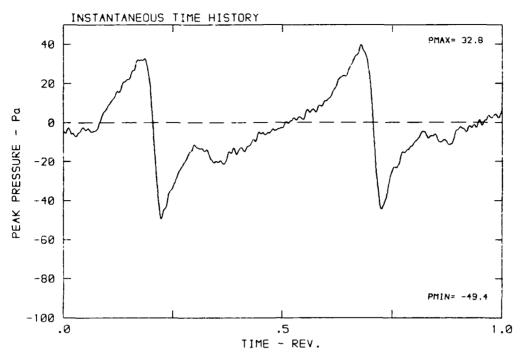
 $β: 23.7^{\circ}$ MH: .7756 n: 2400 rpm v/u: .264 $φ: 3.6^{\circ}$ T: 288.4 K

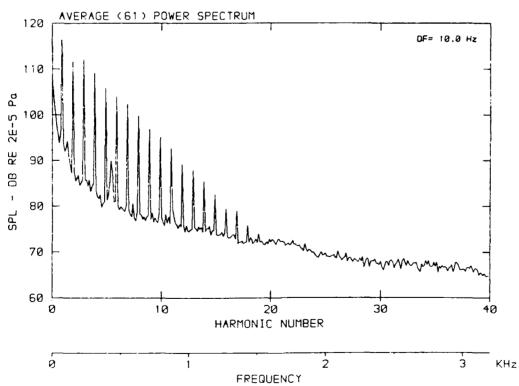


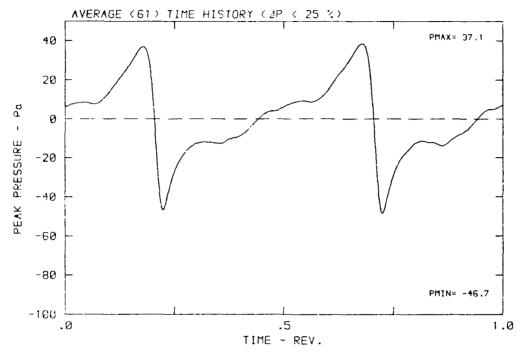


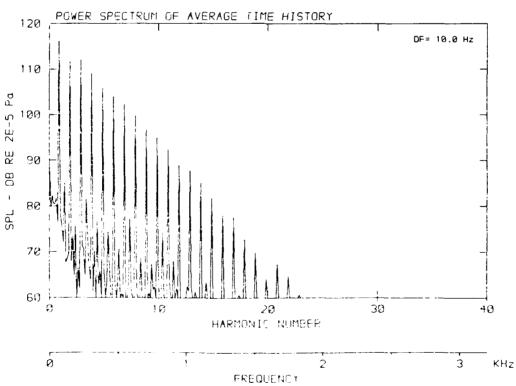




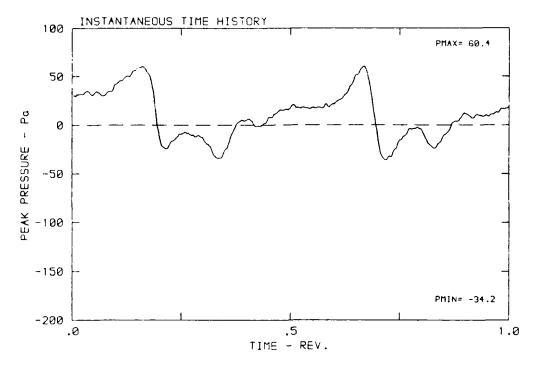


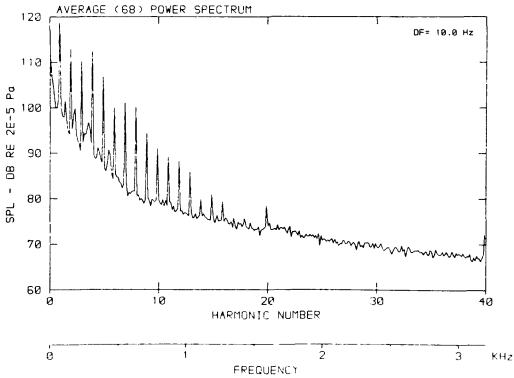


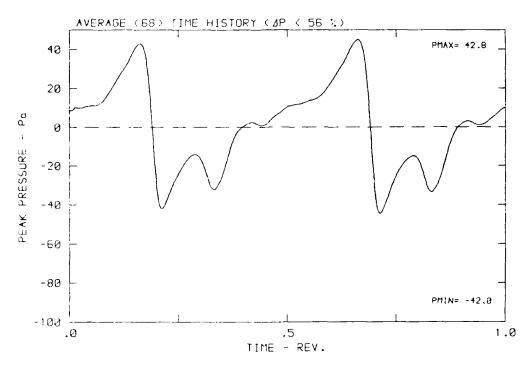


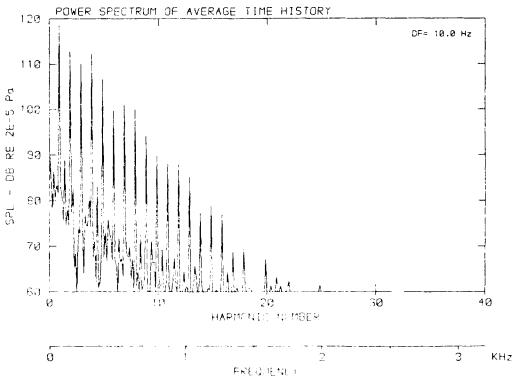


 $β: 23.7^{\circ}$ MH: .7756 n: 2400 rpm v/u: .264 $φ: 3.6^{\circ}$ T: 288.4 K

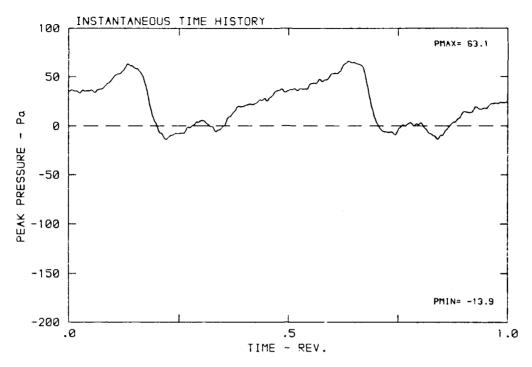


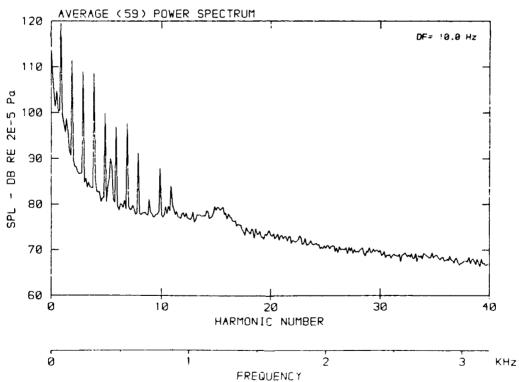




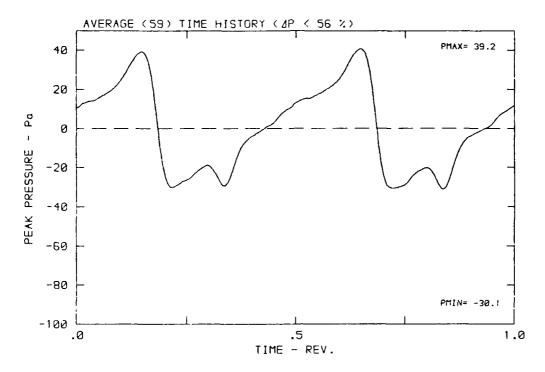


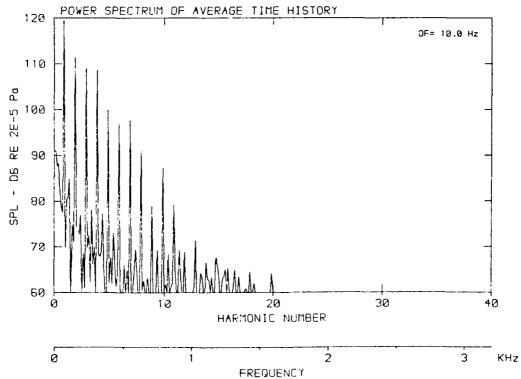
β: 23.7° MH: .7756 n: 2400 rpm ν/u: .264 φ: 3.6° T: 288.4 K



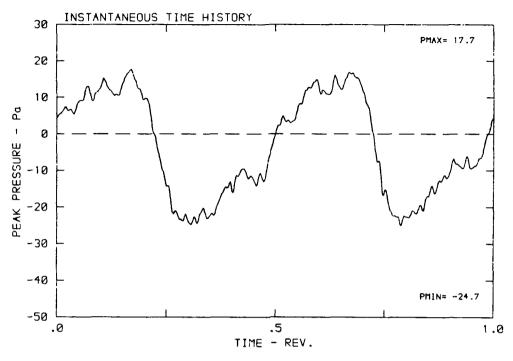


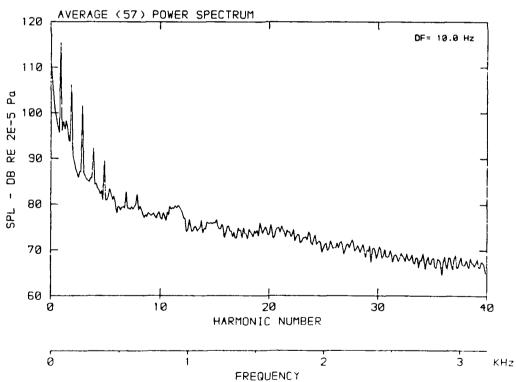
 $\beta\colon\,23.7^{\circ}\,$ MH: .7756 n: 2400 rpm v/u: .264 $\varphi\colon\,3.6^{\circ}\,$ T: 288.4 K

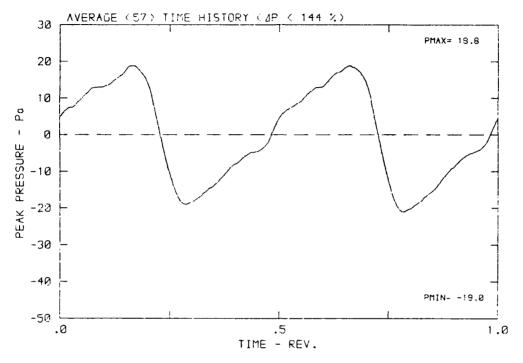


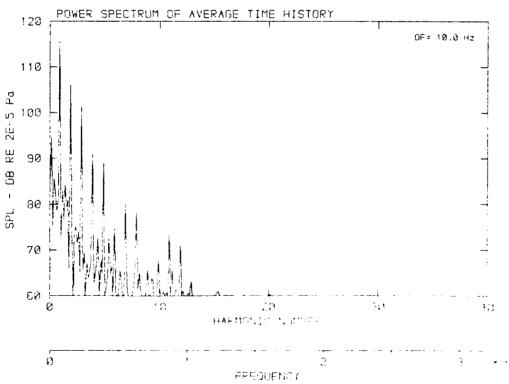


 $β: 23.7^{\circ}$ MH: .7756 n: 2400 rpm ν/u: .264 $φ: 3.6^{\circ}$ T: 288.4 K









β: 23.7° MH: .7756 n: 2400 rpm v/u: .264 φ: 3.6° T: 288.4 K INSTANTANEOUS TIME HISTORY PMAX= 13.8 20 10 Ро 0 PEAK PRESSURE -10 -20 - 30 -40 PMIN= -48.2 -50 1.0 TIME - REV. AVERAGE (70) POWER SPECTRUM 130 DF= 10.0 Hz 120 RE 2E-5 Pa 08 90 SPL 80

20

HARMONIC NUMBER

FREQUENCY

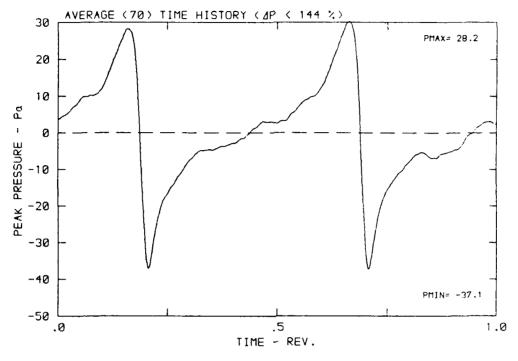
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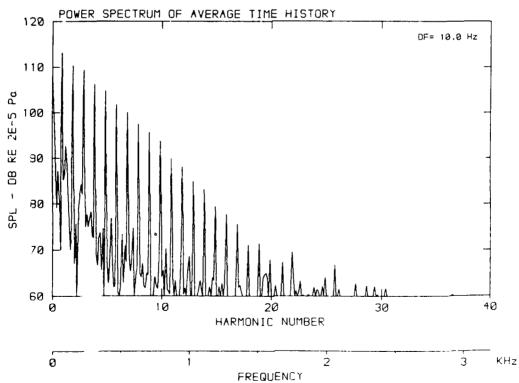
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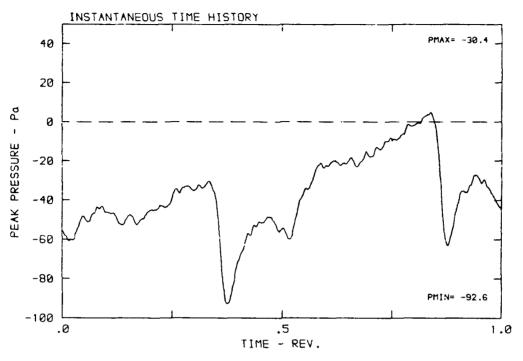
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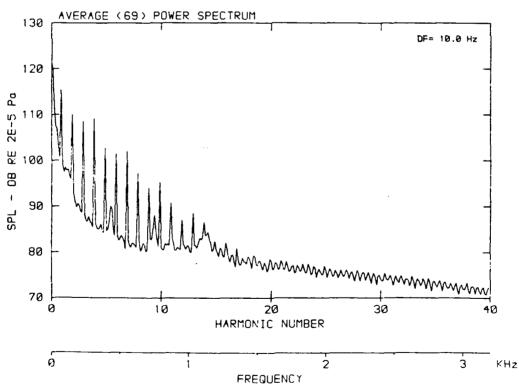
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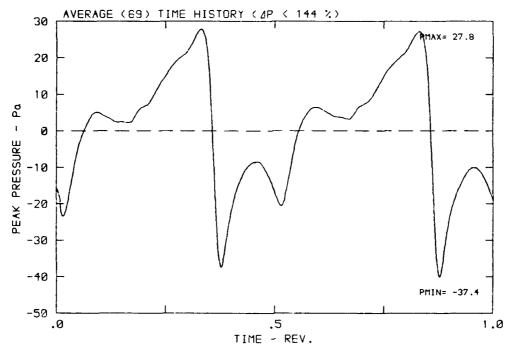


 $\beta\colon\,23.7^{o}\,$ MH: .7756 n: 2400 rpm v/u: .264 $\varphi\colon\,3.6^{o}\,$ T: 288.4 K

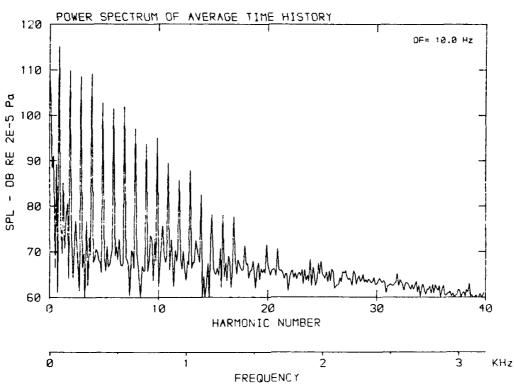


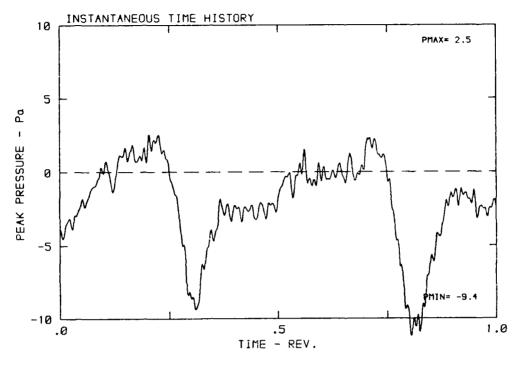


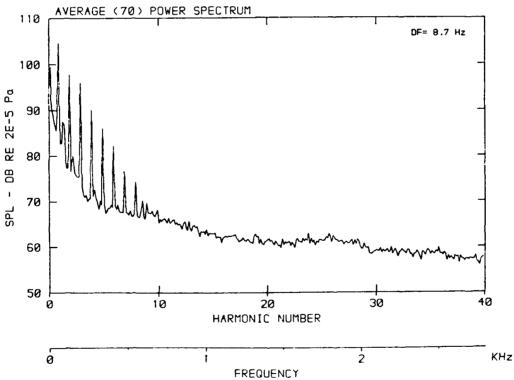
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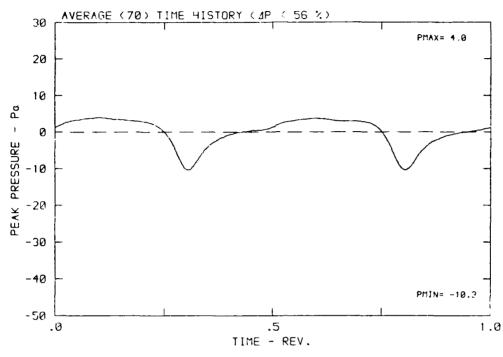


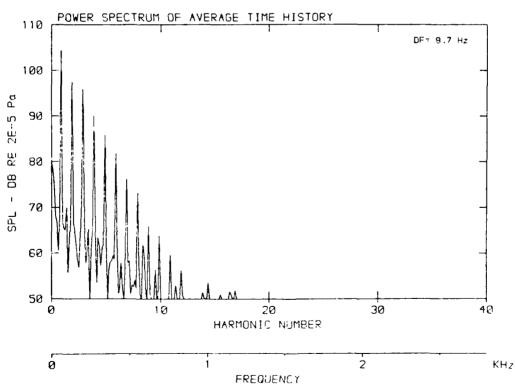
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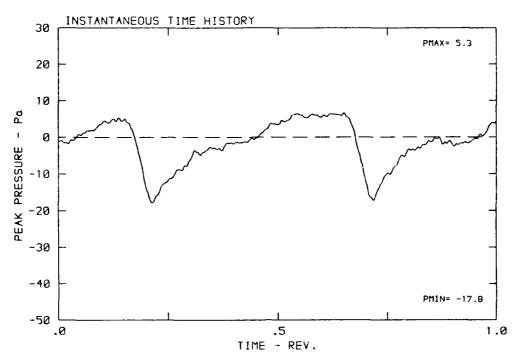


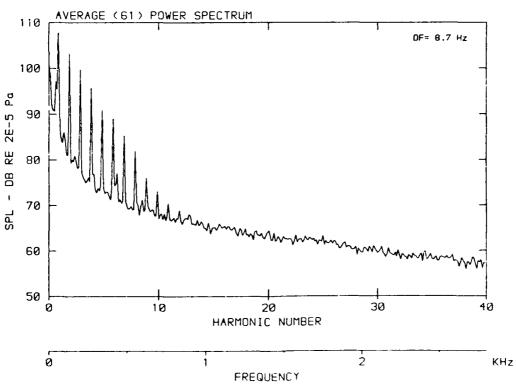




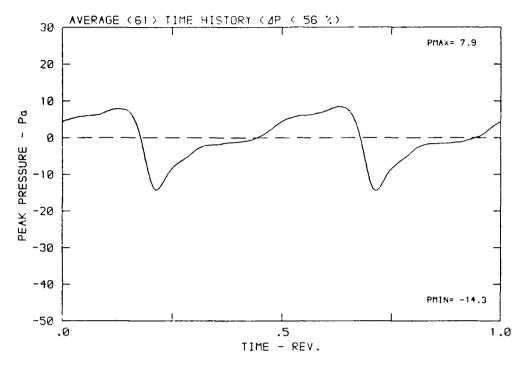


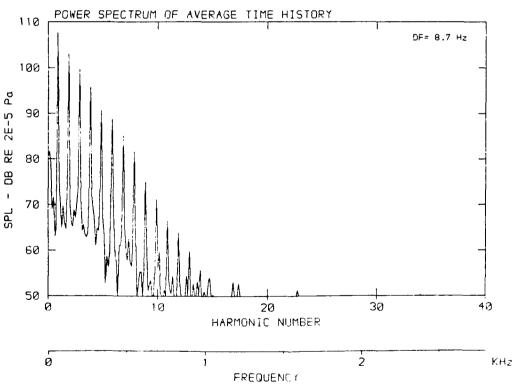


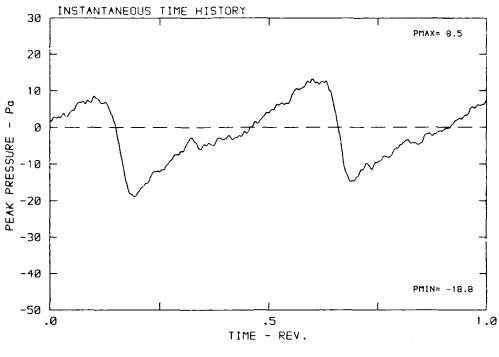


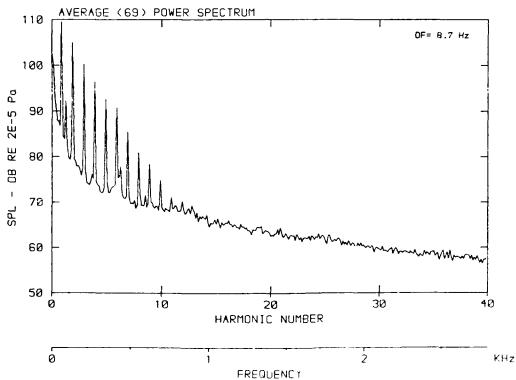


 $\beta\colon\,19.9^{o}$ MH: .6764 n: 2100 rpm v/u: .230 $\varphi\colon\,7.3^{o}$ T: 285.8 K

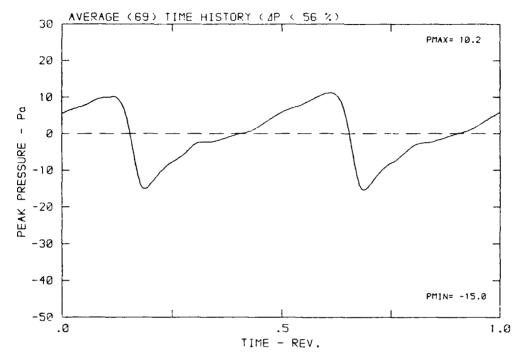




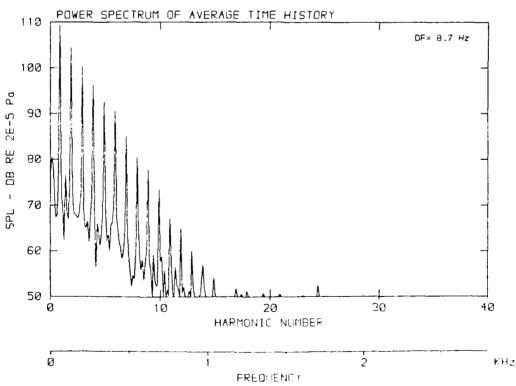


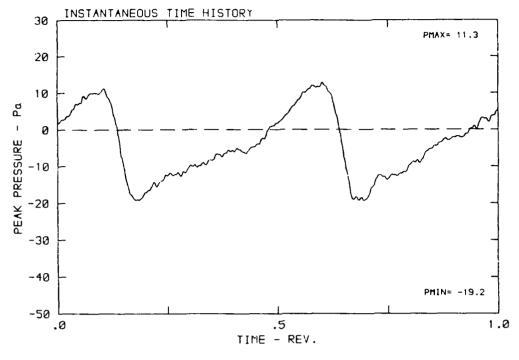


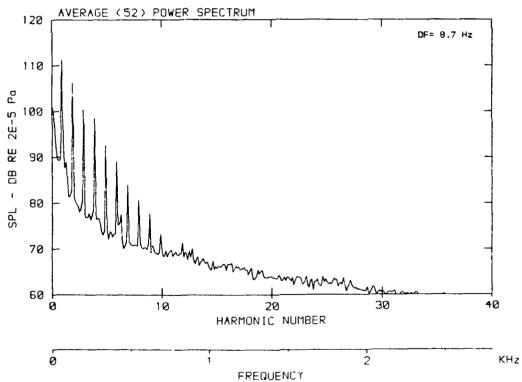
 β : 19.9° MH: .6764 n: 2100 rpm V/U: .230 ϕ : 7.3° T: 285.8 K

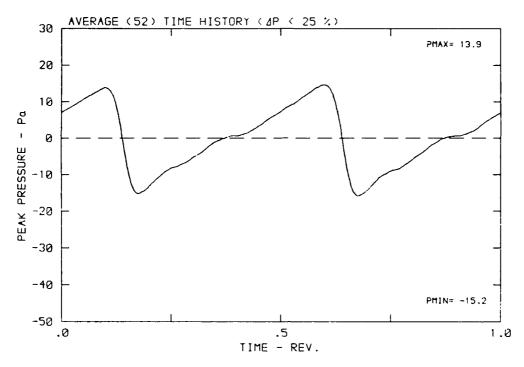


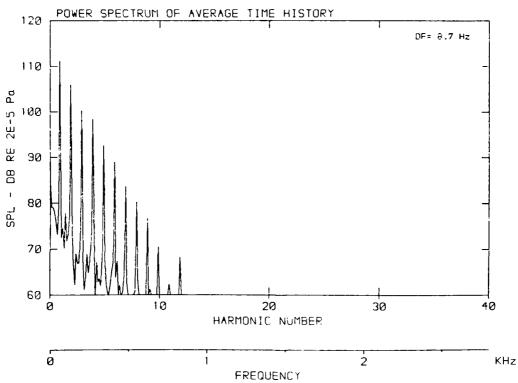
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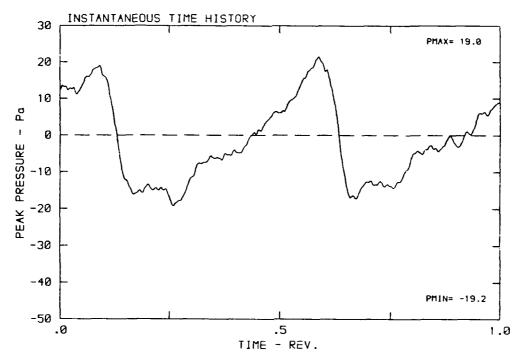


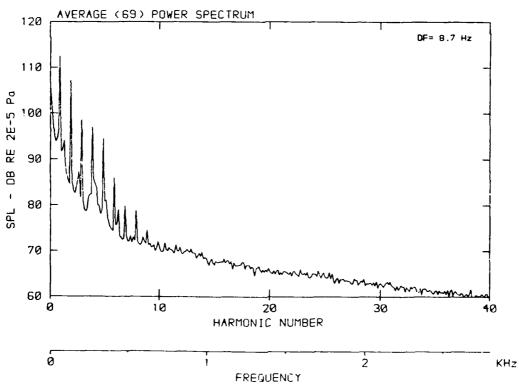


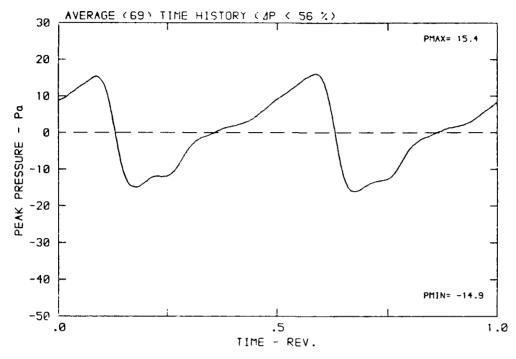


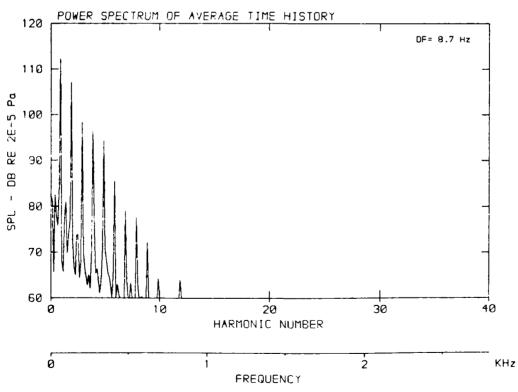


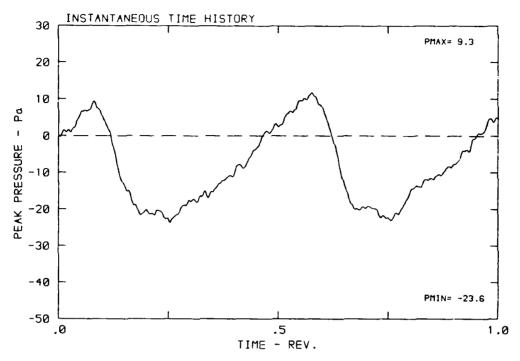


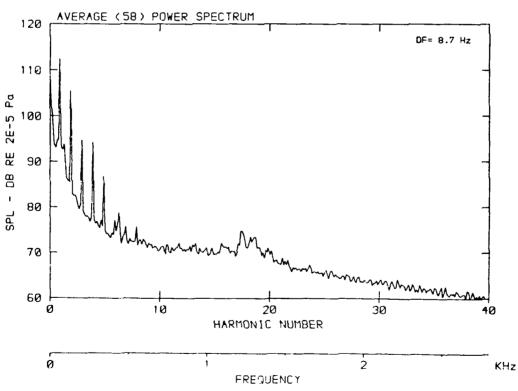


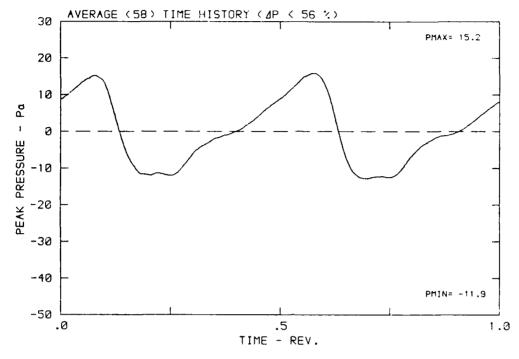


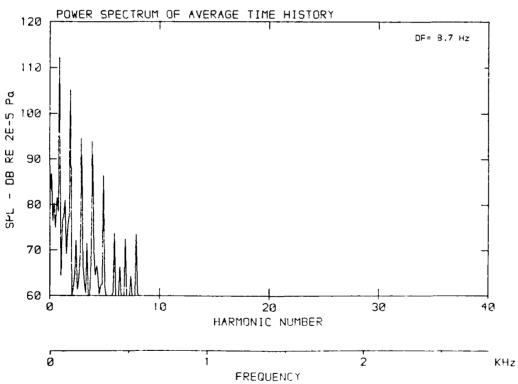




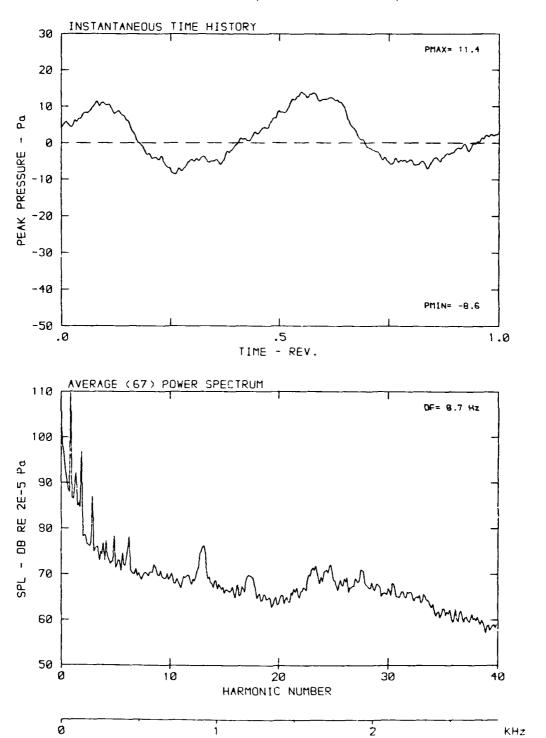




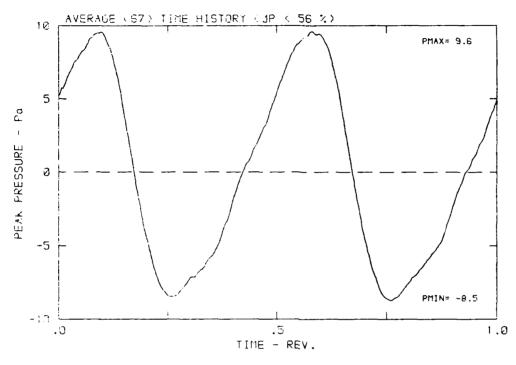


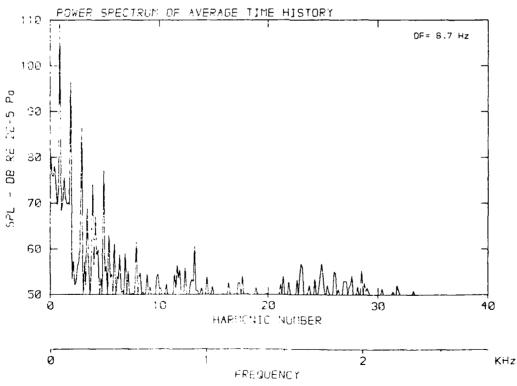


β: 19.9° MH: .6764 n: 2100 rpm ν/u: .230 φ: 7.3° T: 285.8 K

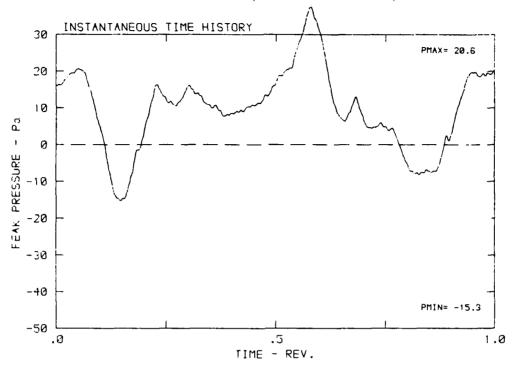


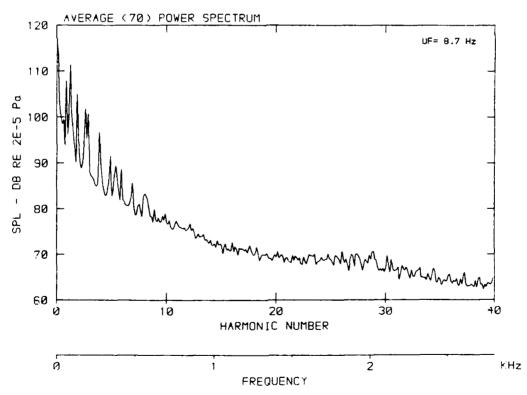
FREQUENCY





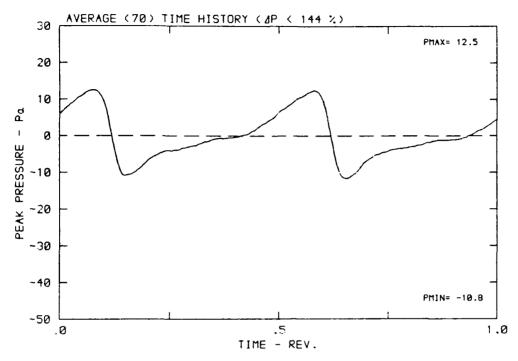
 \dot{p} : 19.9° MH: .6764 n: 2100 rpm v/u: .230 $\dot{\phi}$: 7.3° T: 285.8 K

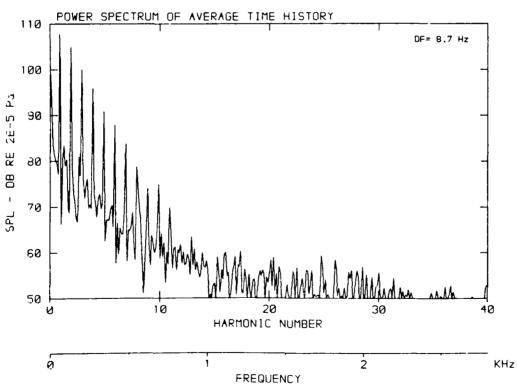




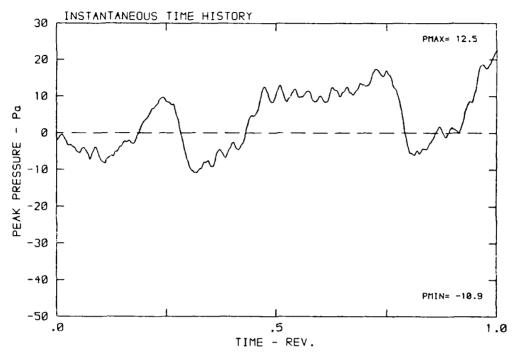
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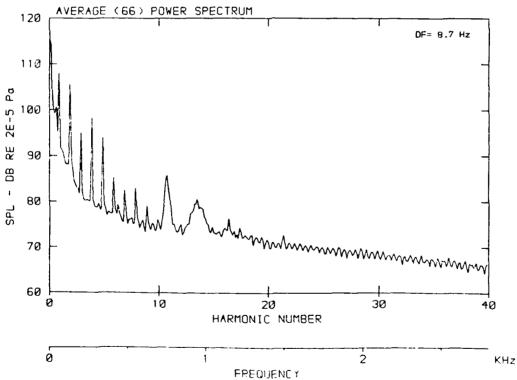
β: 19.9° MH: .6764 n: 2100 rpm ν/u: .230 φ: 7.3° T: 285.8 K



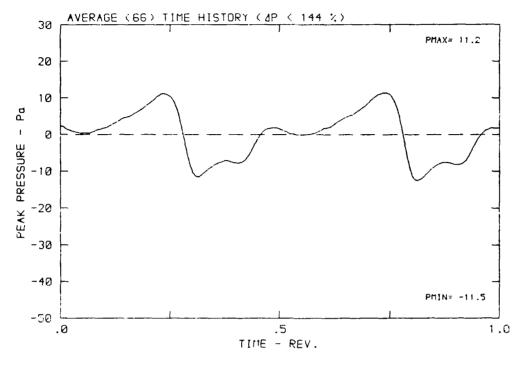


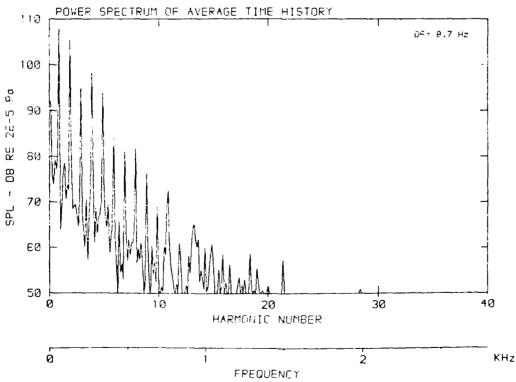
β: 19.9° MH: .6764 n: 2100 rpm ν/u: .230 φ: 7.3° T: 285.8 K

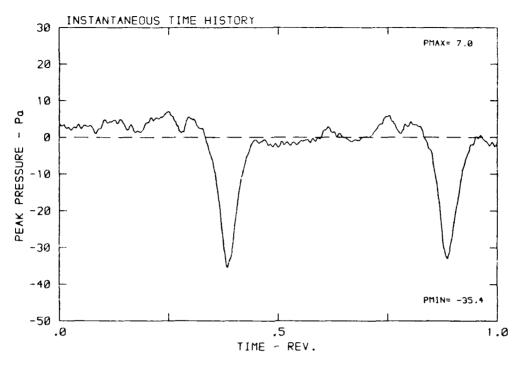


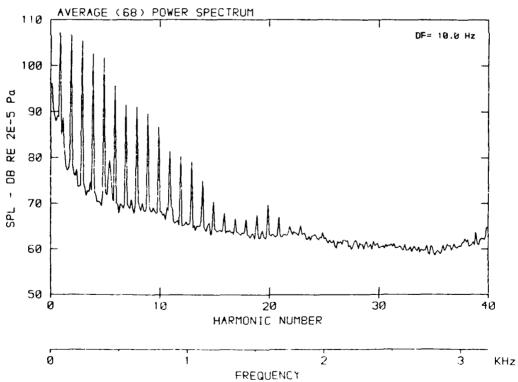


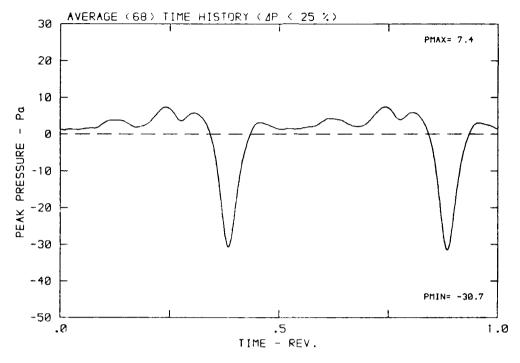
 $\beta\colon\,19.9^{\text{o}}\,$ MH: .6764 n: 2100 rpm $\,$ v/u: .230 $\,$ $\varphi\colon\,7.3^{\text{o}}\,$ T: 285.8 K

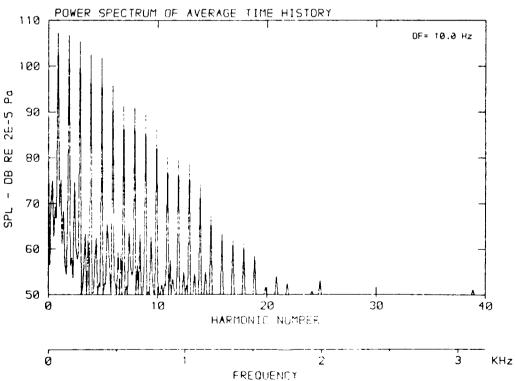


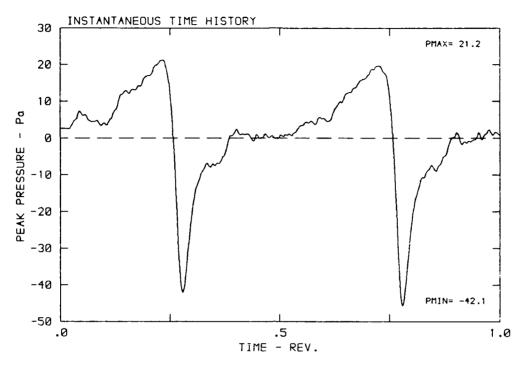


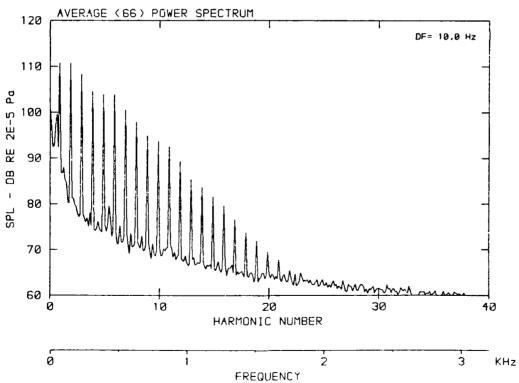




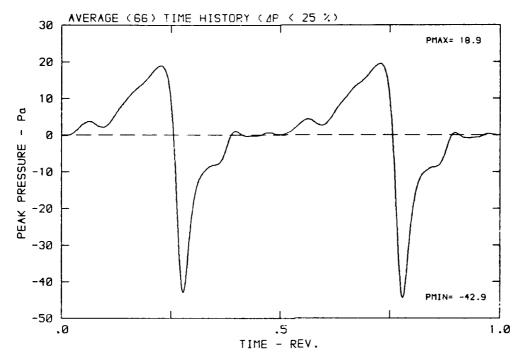


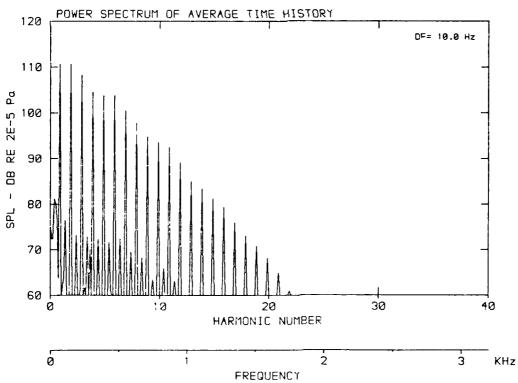




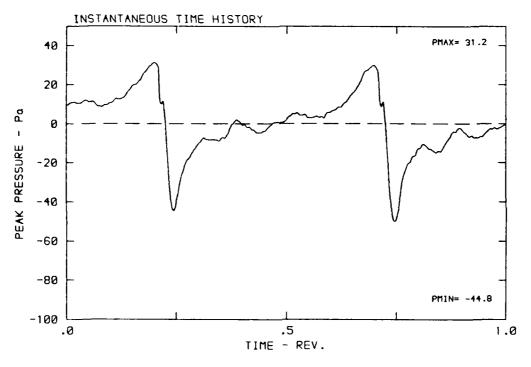


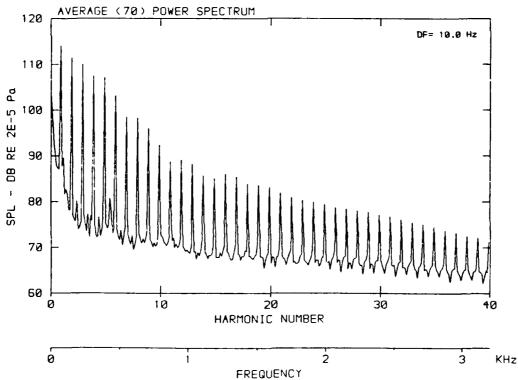
 $\beta\colon\,19.9^{\circ}\,$ MH: .7677 n: 2400 rpm v/u: .203 $\varphi\colon\,7.3^{\circ}\,$ T: 286.6 K

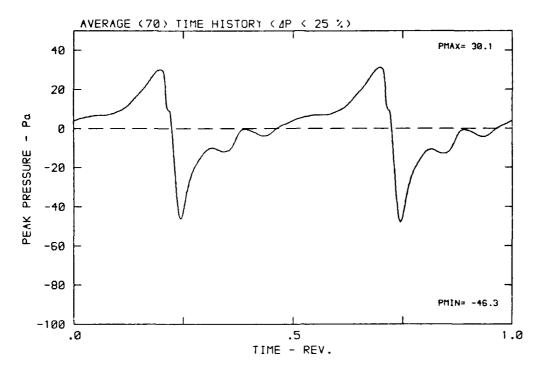


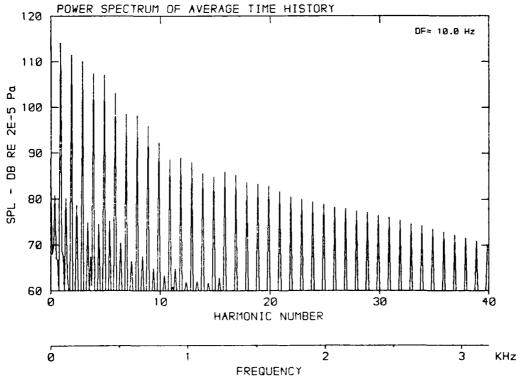


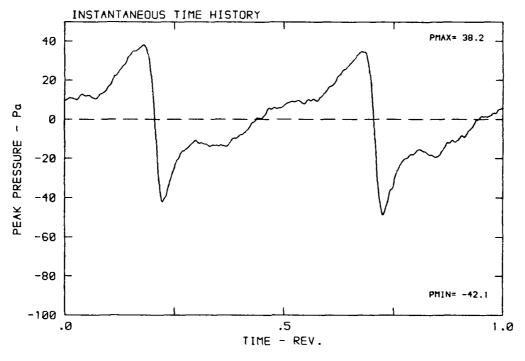
 $\beta\colon\,19.9^{o}\,$ MH: .7677 n: 2400 rpm v/u: .203 $\,\varphi\colon\,7.3^{o}\,$ T: 286.6 K

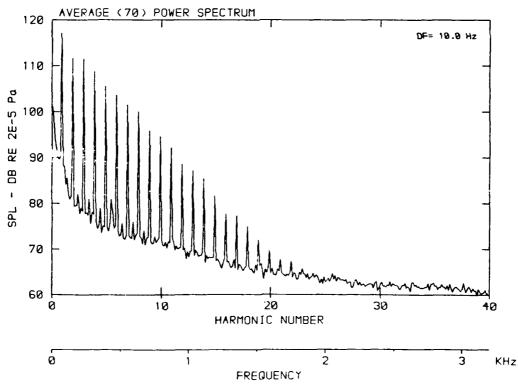


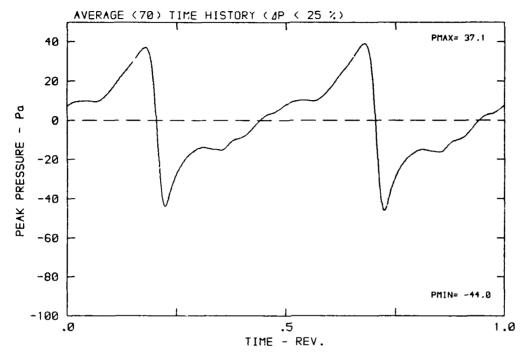


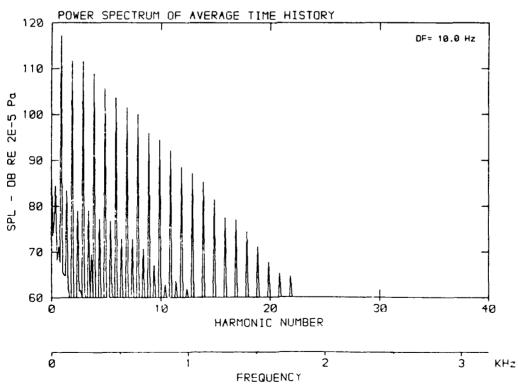


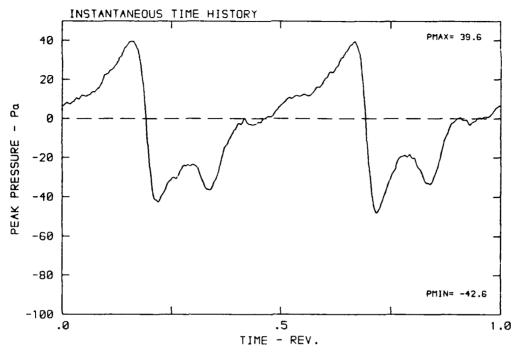


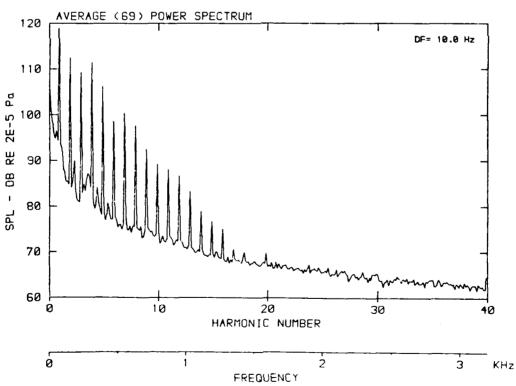


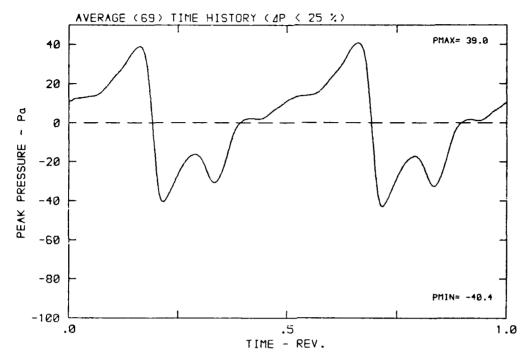


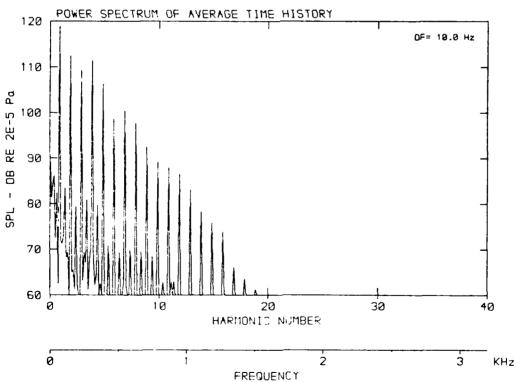




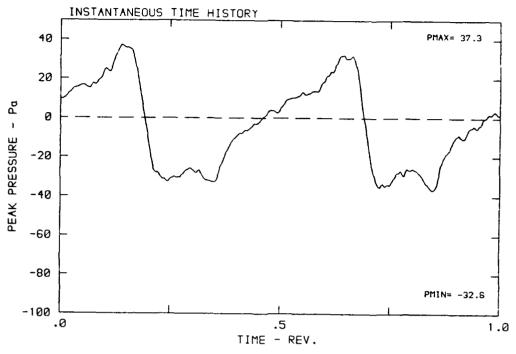


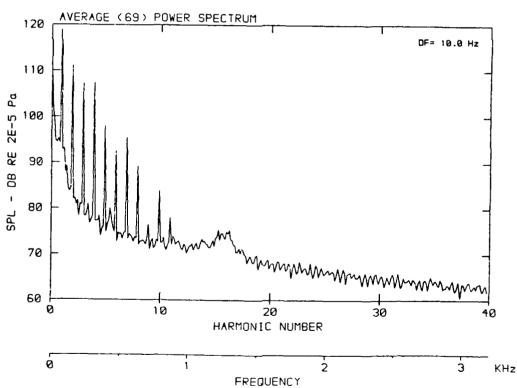


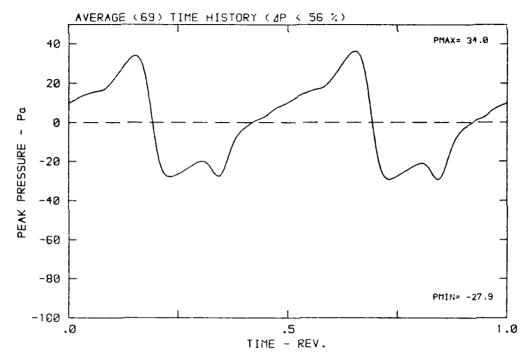


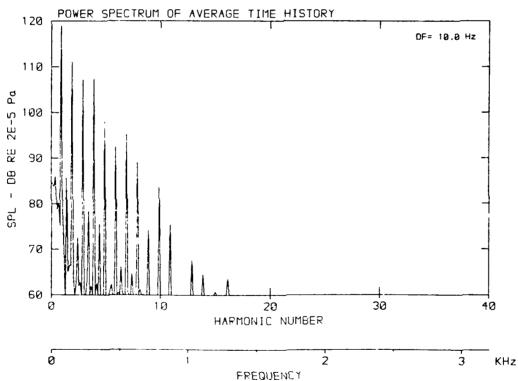


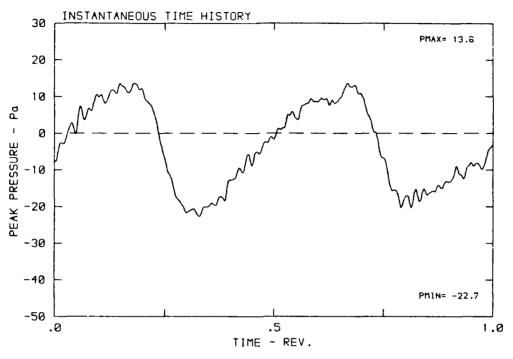
 $\beta\colon\,19.9^{o}$ MH: .7677 n: 2400 rpm v/u: .203 $\varphi\colon\,7.3^{o}$ T: 286.6 K

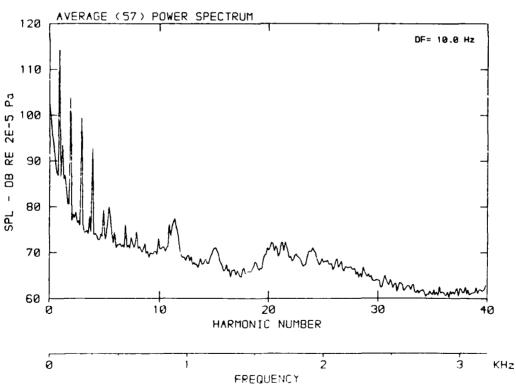


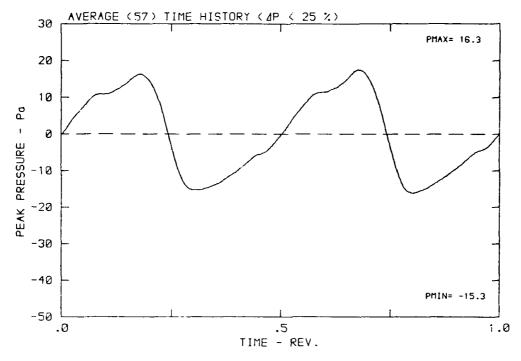


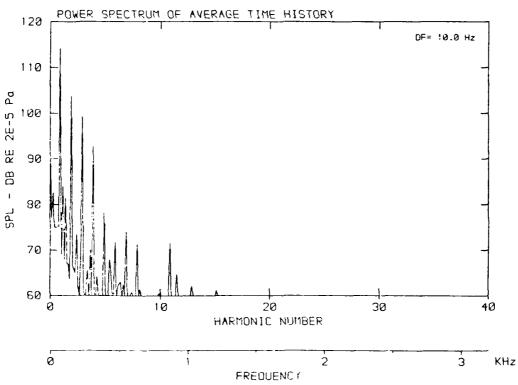




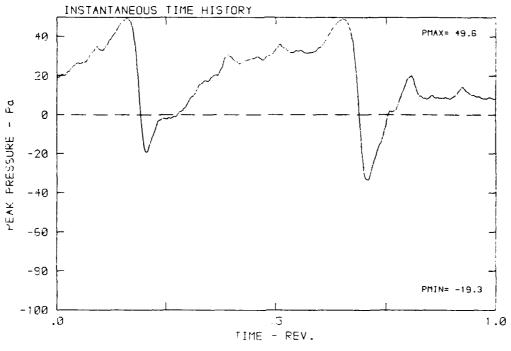


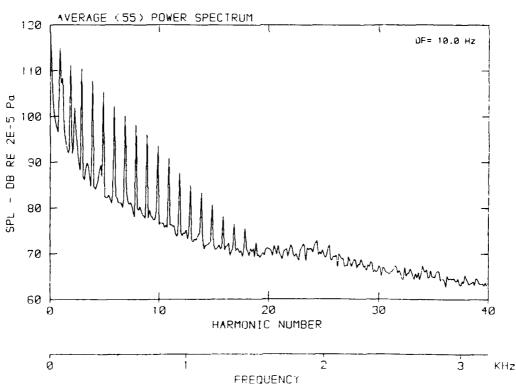




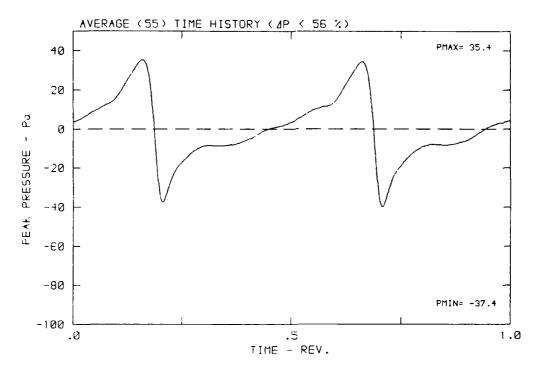


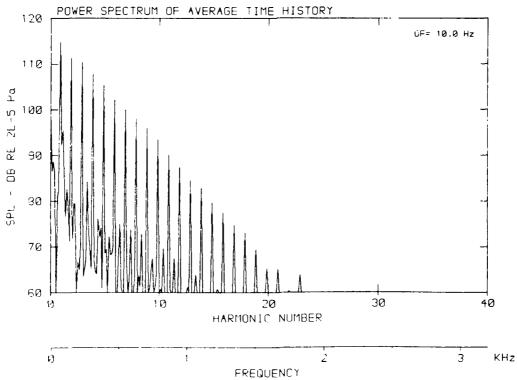
 $\hat{\mathfrak{p}}$: 19.9° MH: .7677 n: 2400 rpm v/u: .203 $\text{$\phi$}$: 7.3° T: 285.5 $\text{$\kappa$}$



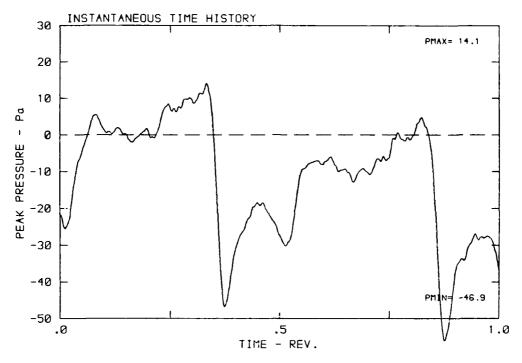


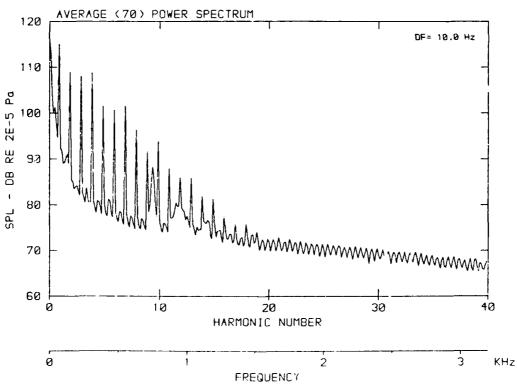
 $β: 19.9^{\circ}$ MH: .7677 n: 2400 rpm v/u: .203 $φ: 7.3^{\circ}$ T: 286.6 K



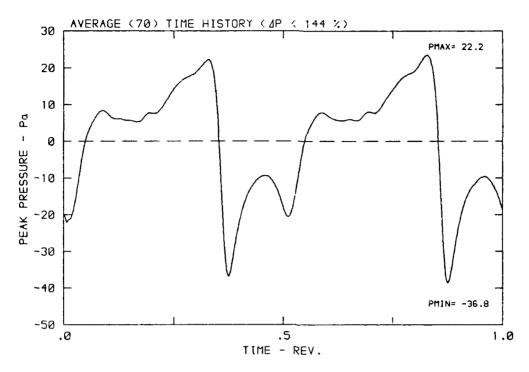


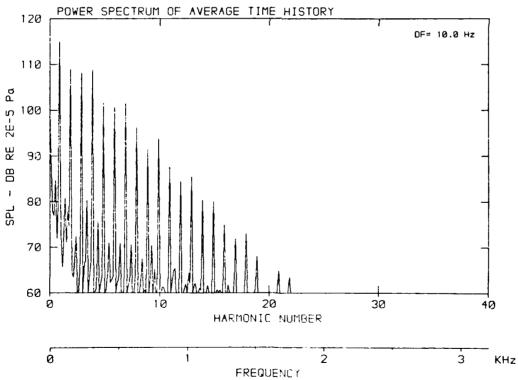
β: 19.9° MH: .7677 n: 2400 rpm ν/u: .203 φ: 7.3° T: 286.6 K



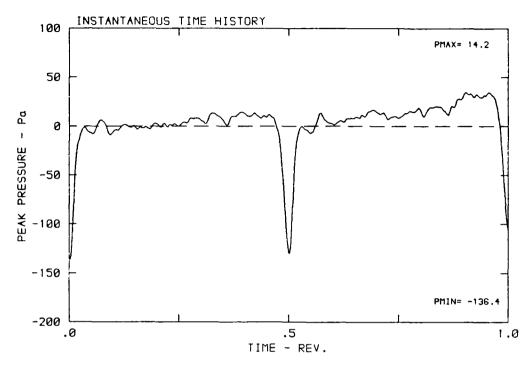


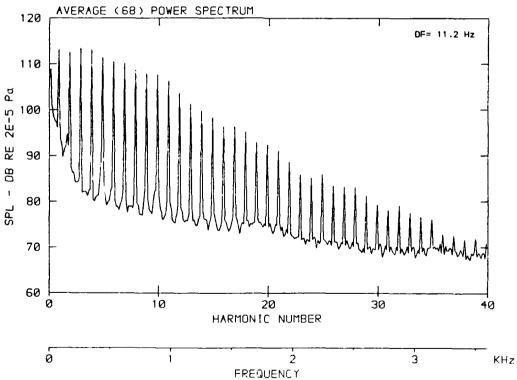
β: 19.9° MH: .7677 n: 2400 rpm ν/u: .203 φ: 7.3° T: 286.6 K



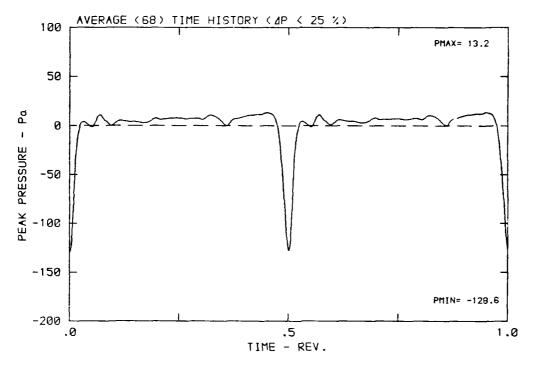


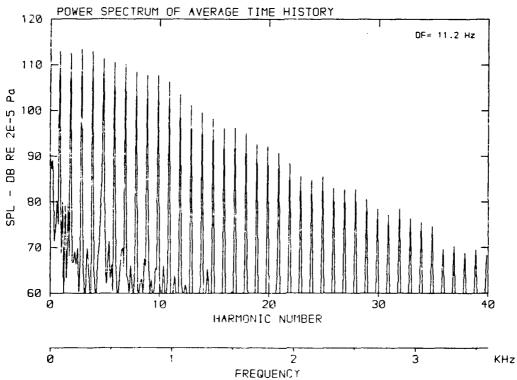
β: 19.9° MH: .8745 n: 2700 rpm ν/u: .269 φ: 7.3° T: 287.9 K



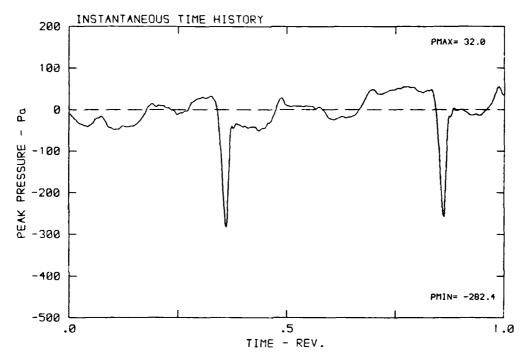


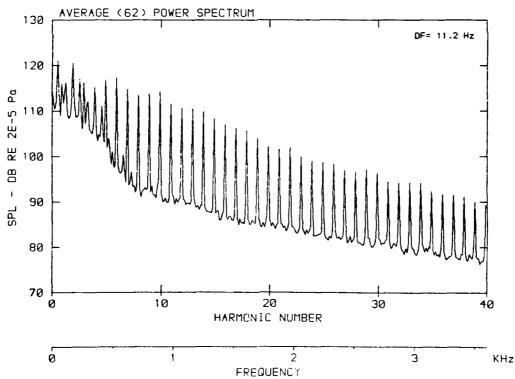
 $\beta\colon\,19.9^{o}$ MH: .8745 n: 2700 rpm v/u: .269 $\varphi\colon\,7.3^{o}$ T: 287.9 K



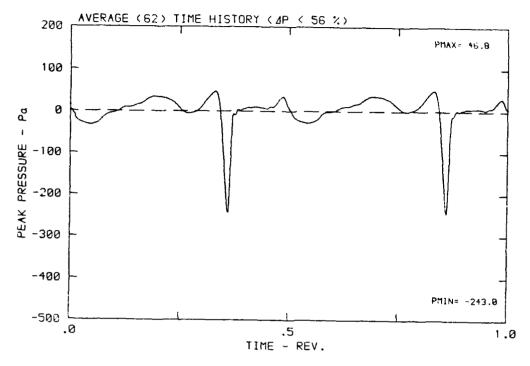


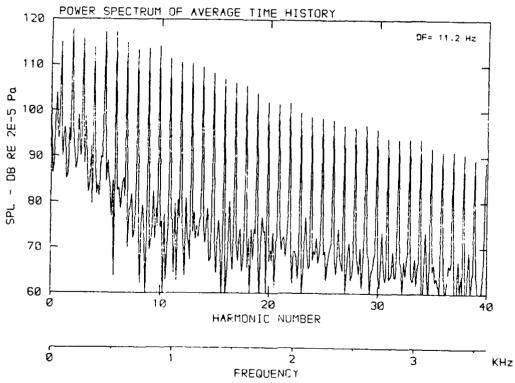
 $\beta\colon\,19.9^{o}\,$ MH: .8745 n: 2700 rpm v/u: .269 $\varphi\colon\,7.3^{o}\,$ T: 287.9 K

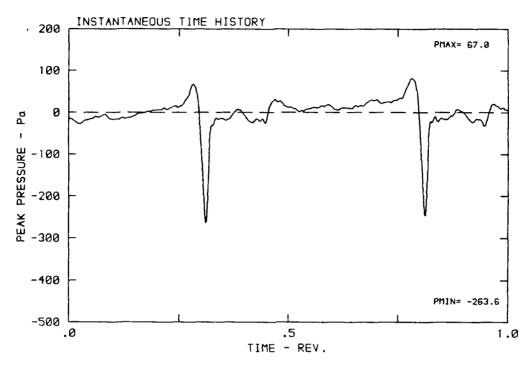


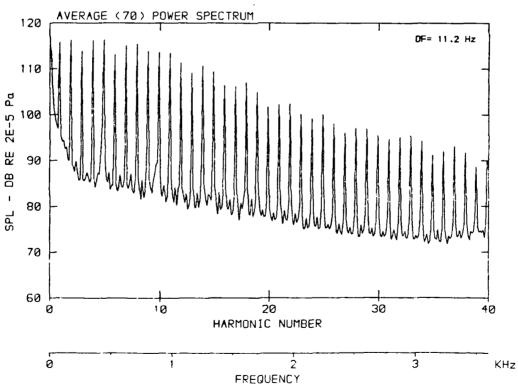


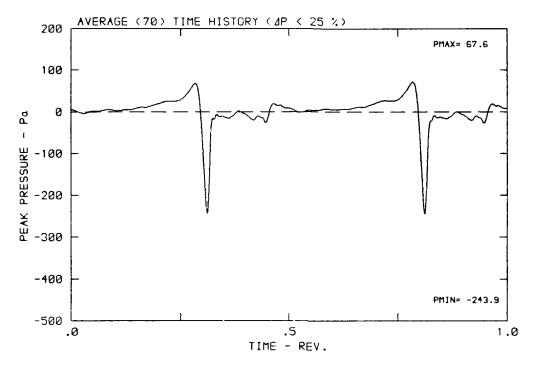
 $\beta\colon\,19.9^{\circ}$ MH: .8745 n: 2700 rpm v/u: .269 $\varphi\colon\,7.3^{\circ}$ T: 287.9 K

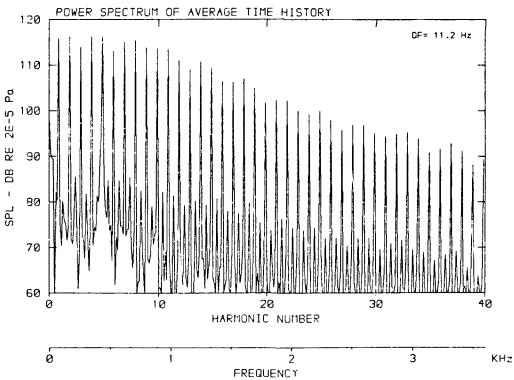


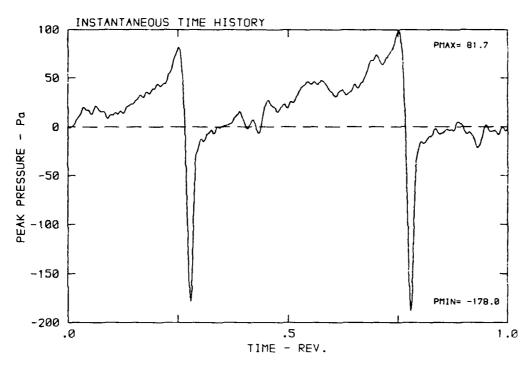


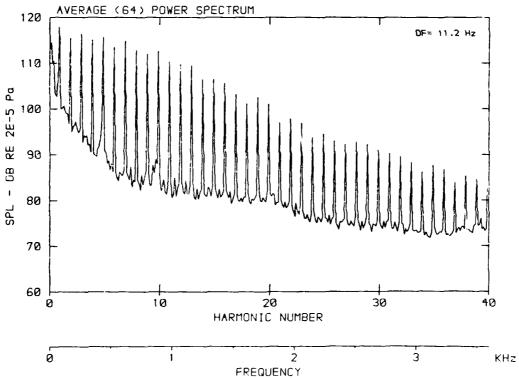


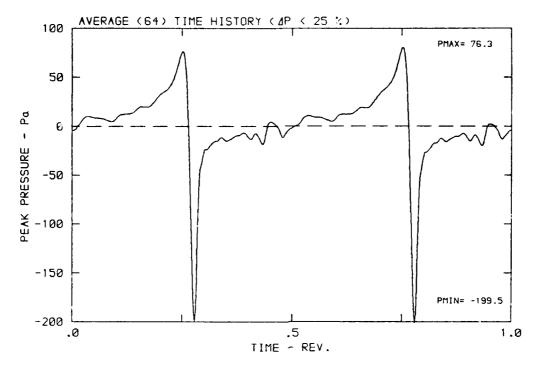


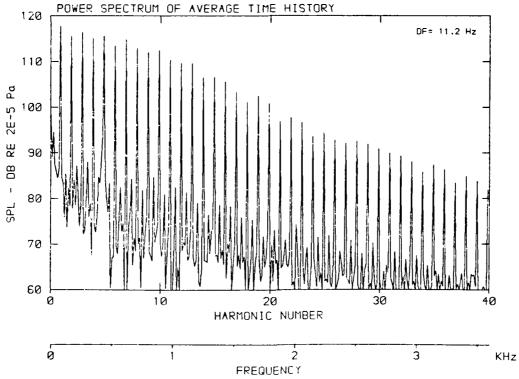




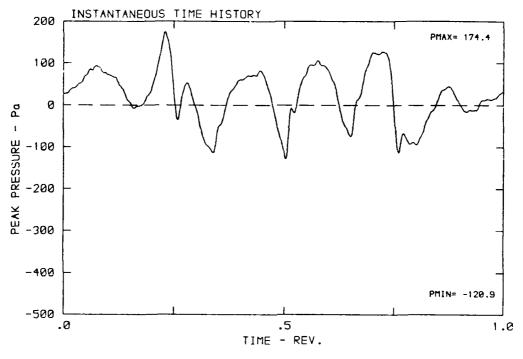


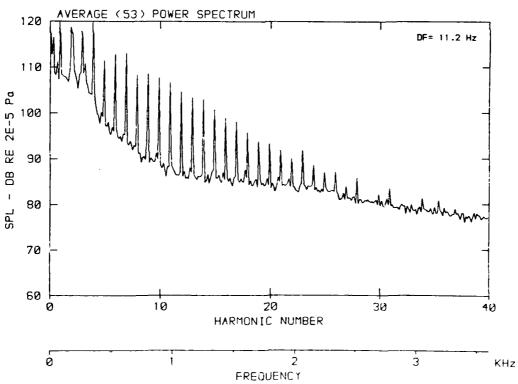


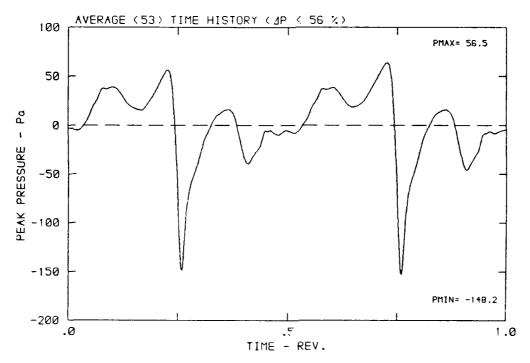


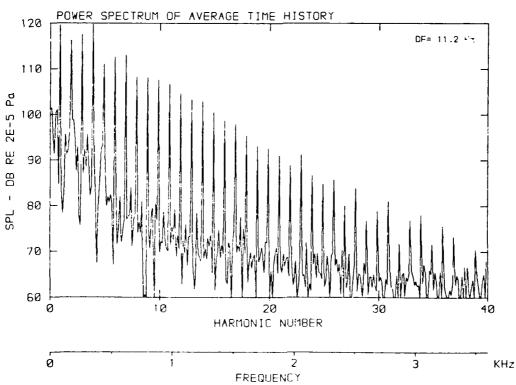


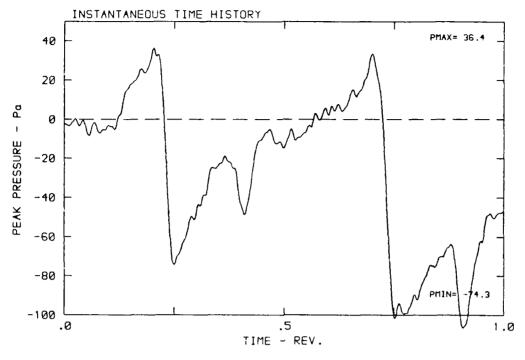
 $β: 19.9^{\circ}$ MH: .8745 n: 2700 rpm v/u: .269 $φ: 7.3^{\circ}$ T: 287.9 K

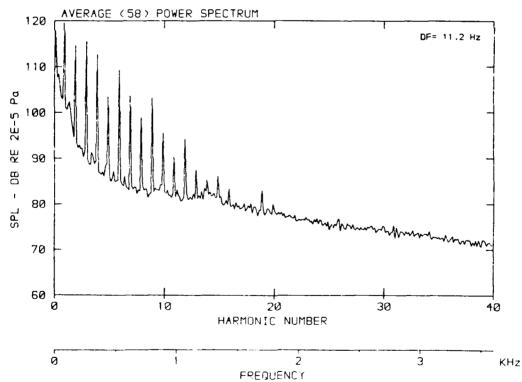


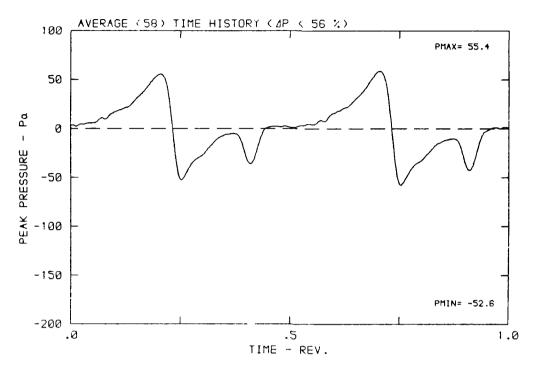


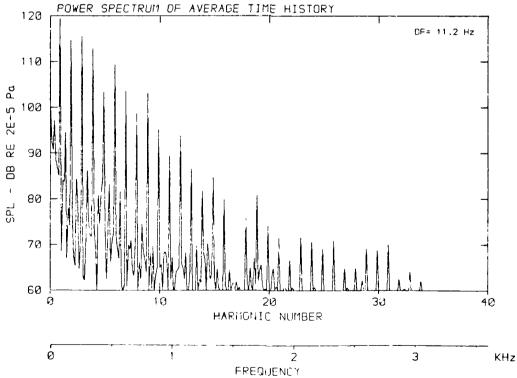




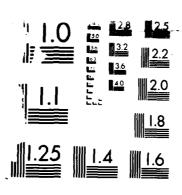




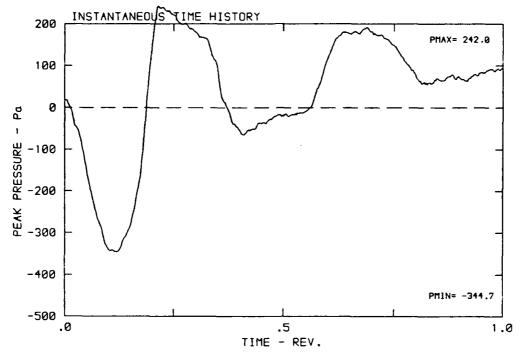


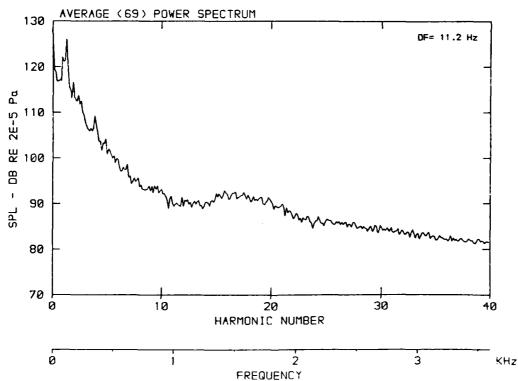


DFYLR/FAA (DEUTSCHE FORSCHUNGS-UND VERSUCHSANSTALT FUER LUFT UND RAUHFAHR. (U) DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUHF. . N M DOBRZYNSKI ET AL. 1986 F/G 20/1 AD-A174 988 5/6 NL UNCLASSIFIED

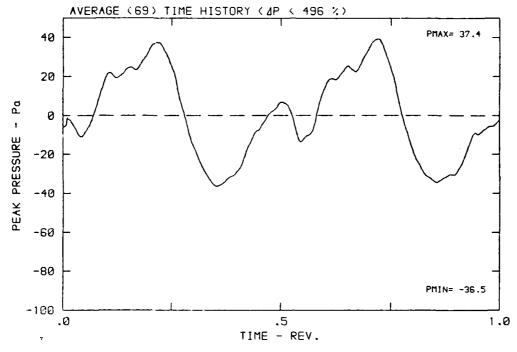


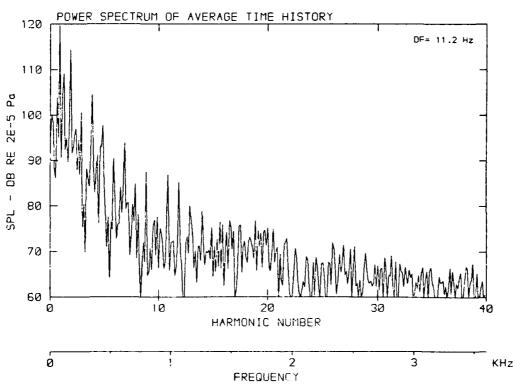
M F - 4"Y RESOLUTION TEST CHART



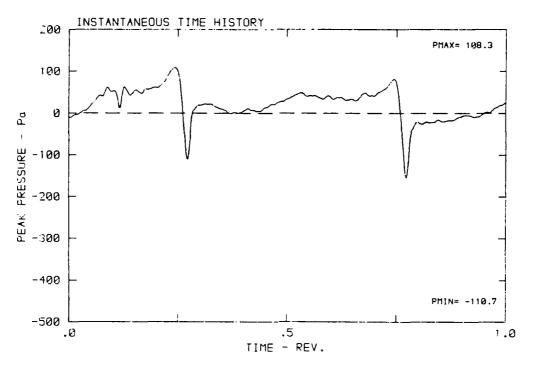


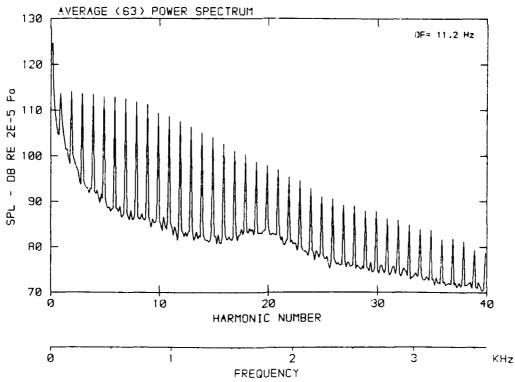
 $\beta\colon\,19.9^{\circ}\,$ MH: .8745 n: 2700 rpm v/u: .269 $\varphi\colon\,7.3^{\circ}\,$ T: 287.9 K



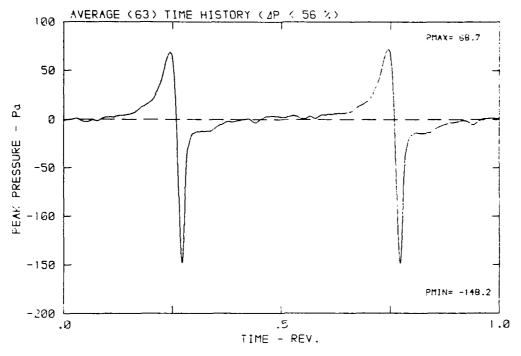


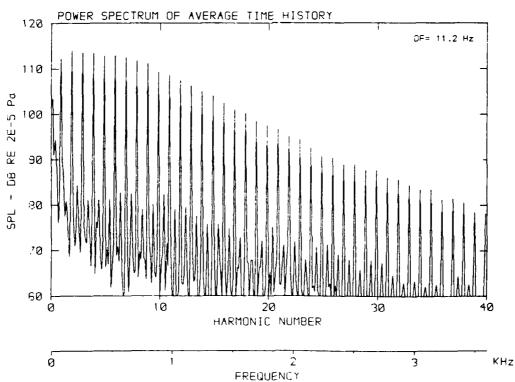
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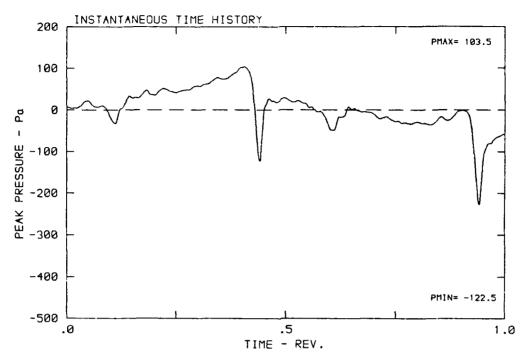


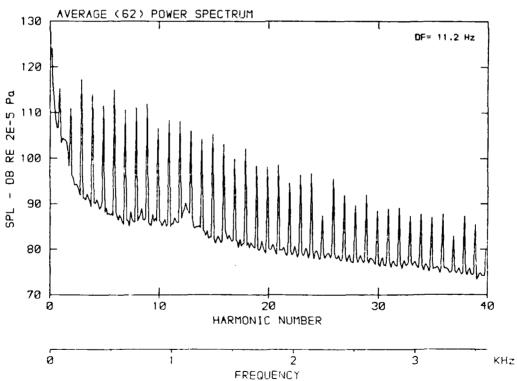
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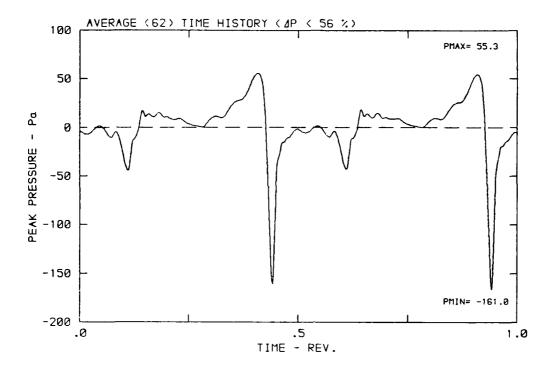
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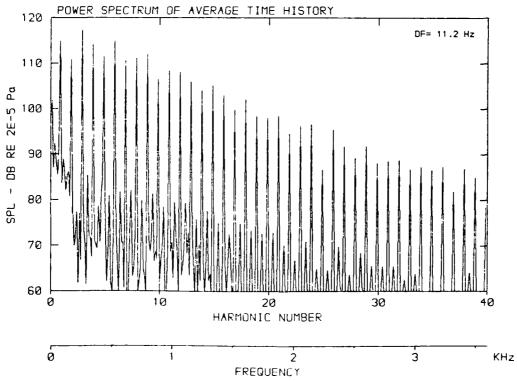




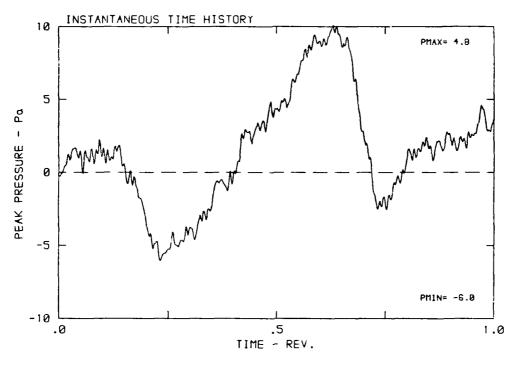
CONTRACTOR DESCRIPTION SERVICES SERVICES PROPERTY OF THE PROPE

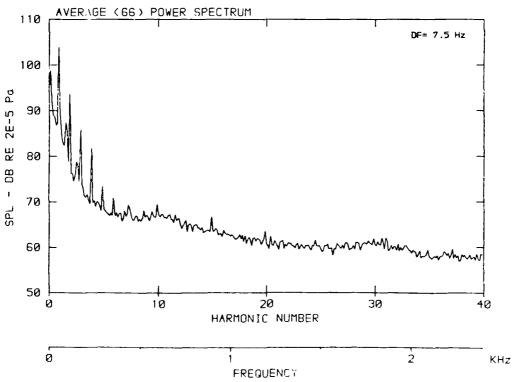
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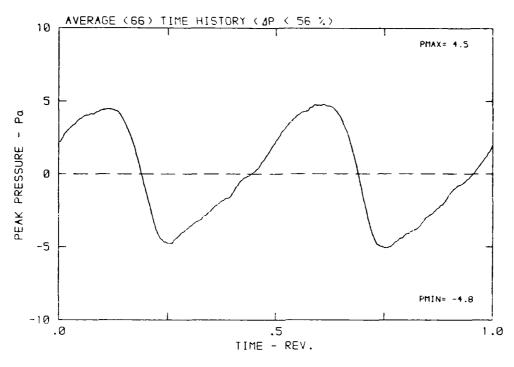


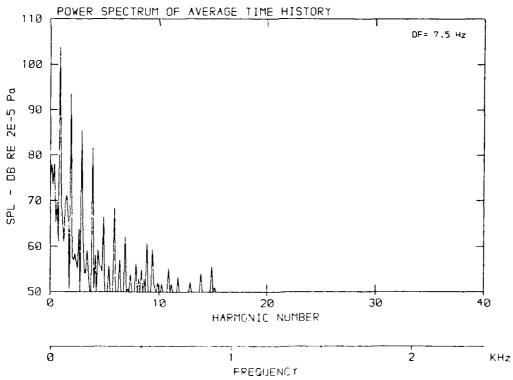


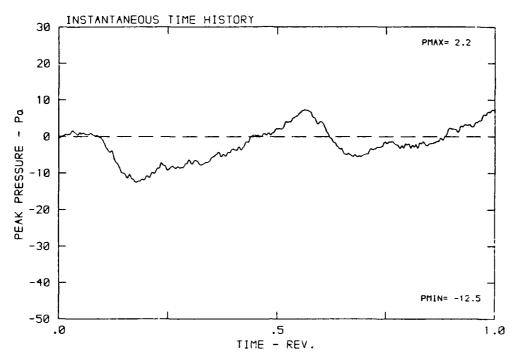
β: 23.7° MH: .5847 n: 1800 rpm v/u: .268 φ: 7.3° T: 286.1 K

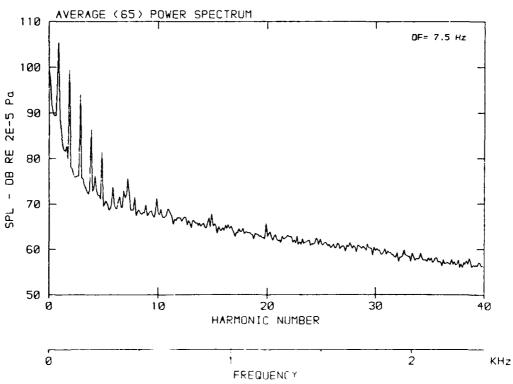




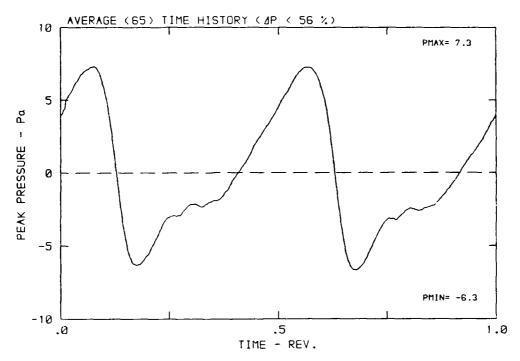




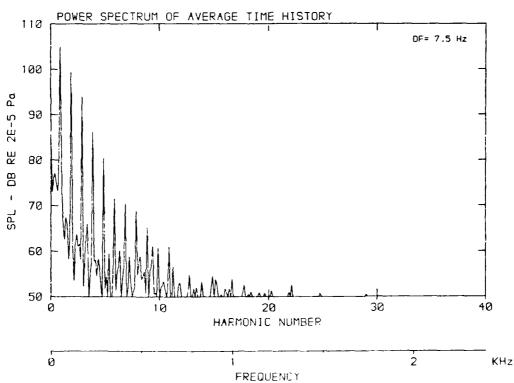


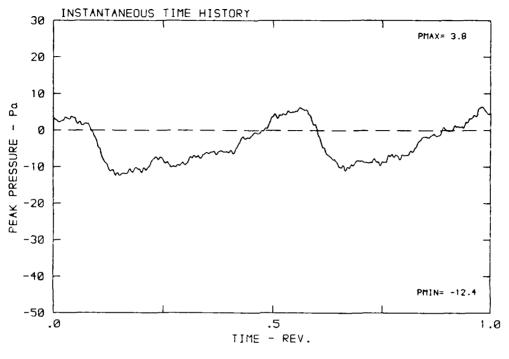


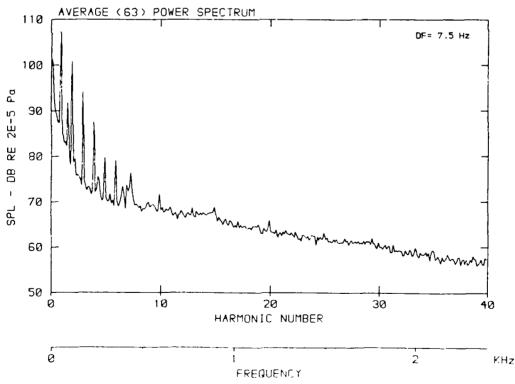
 $\beta\colon 23.7^{\circ}$ MH: .5847 n: 1800 rpm v/u: .268 $\varphi\colon 7.3^{\circ}$ T: 286.1 K

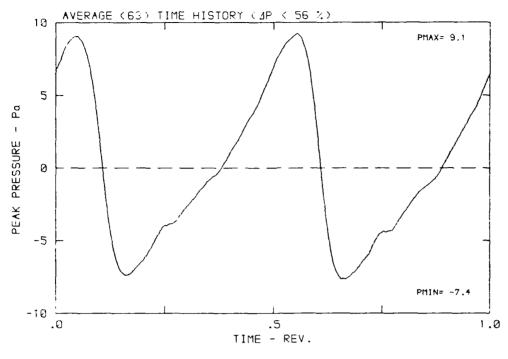


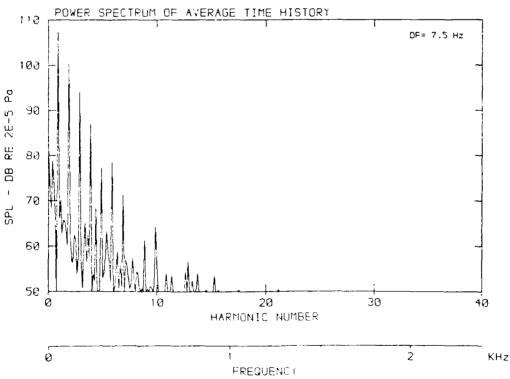
SERVICE COCCOCC. SEPTEMBER COCCC

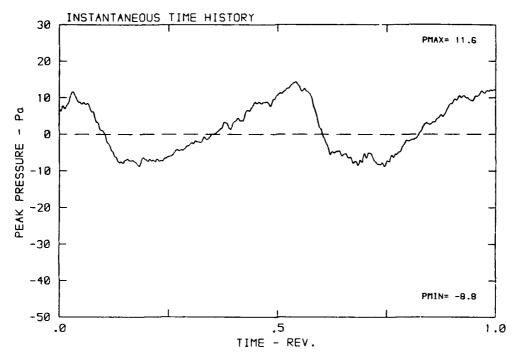


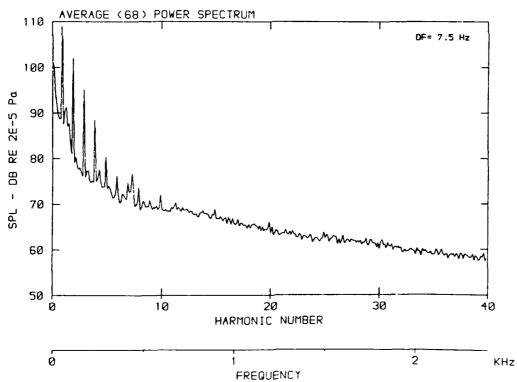


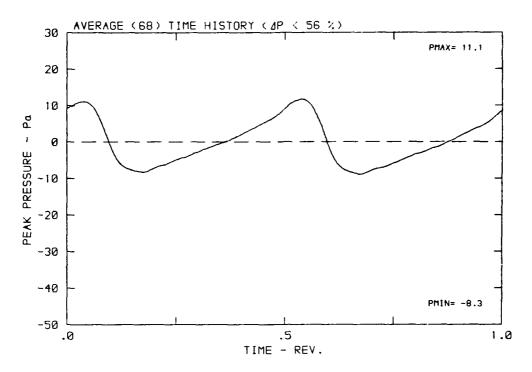


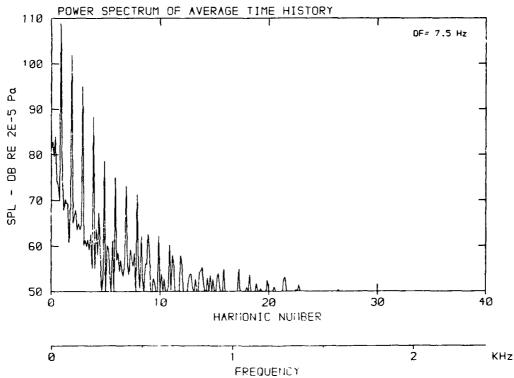


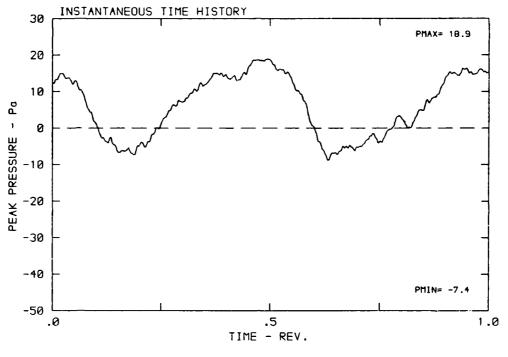


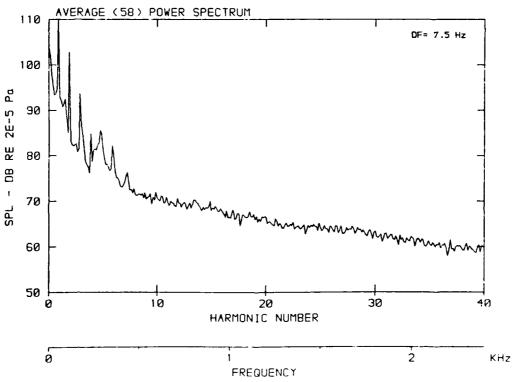




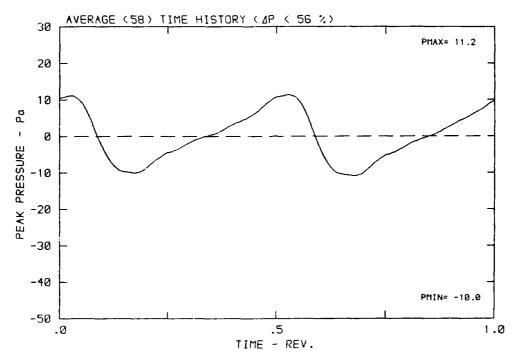


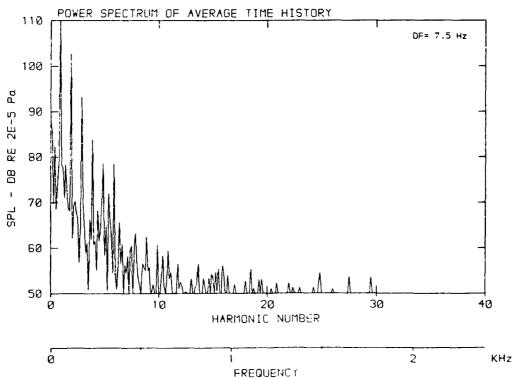


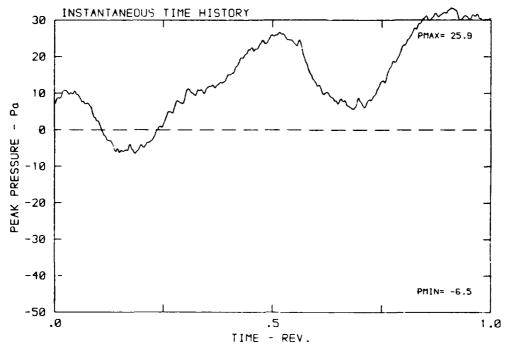


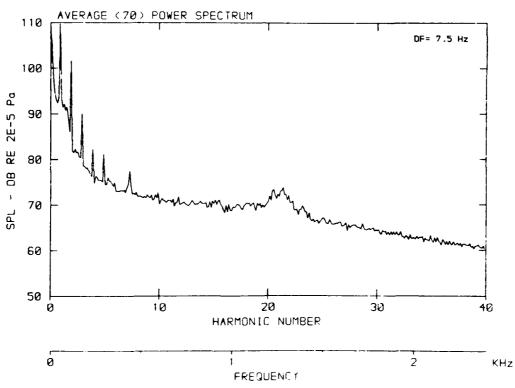


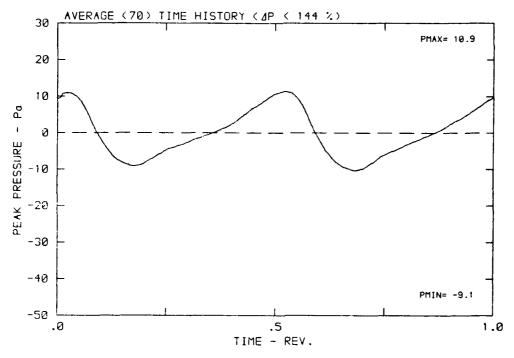
 $\beta\colon 23.7^{\circ}$ MH: .5847 n: 1800 rpm v/u: .268 $\varphi\colon 7.3^{\circ}$ T: 286.1 K

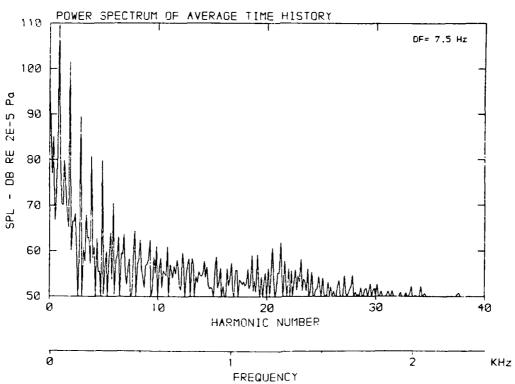












β: 23.7° MH: .5847 n: 1800 rpm v/u: .268 φ: 7.3° T: 286.1 K INSTANTANEOUS TIME HISTORY PMAX= 7.50 5 PEAK PRESSURE - Pa 0 -5 PMIN= -9.4 -10 .0 1.0 TIME - REV. AVERAGE (51) POWER SPECTRUM 110 **DF=** 7.5 Hz 100 2E-5 Pa 90 OB RE 80 70 60

> 20 HARMONIC NUMBER

> > FREQUENCY

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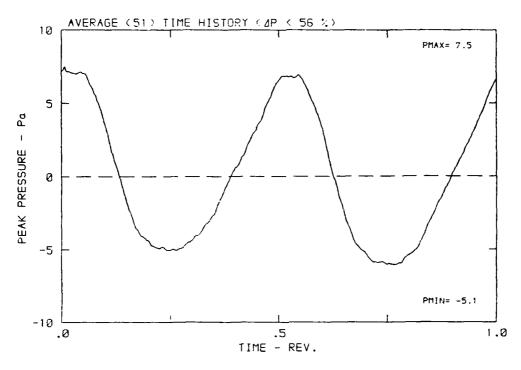
KHz

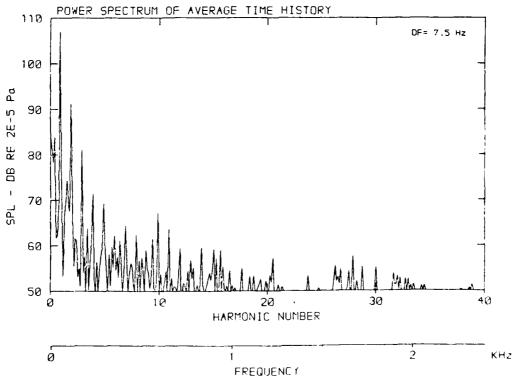
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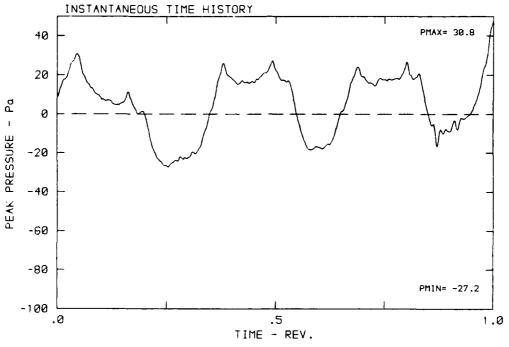
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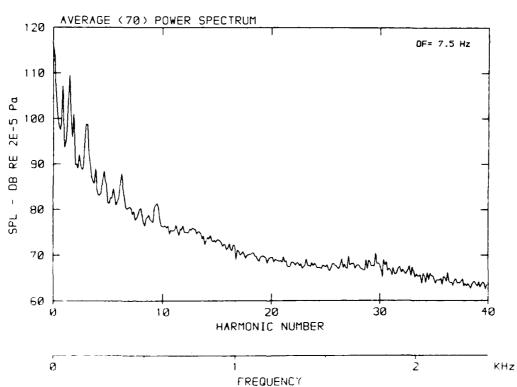
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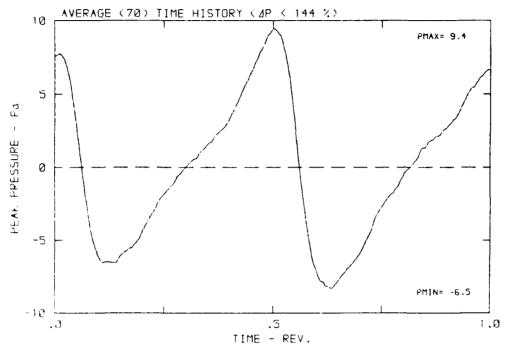


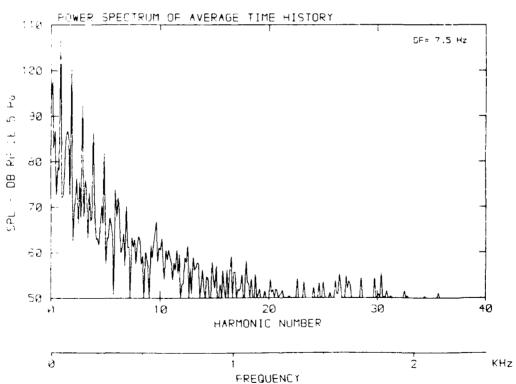


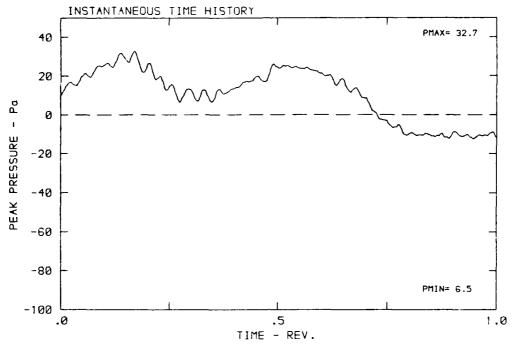


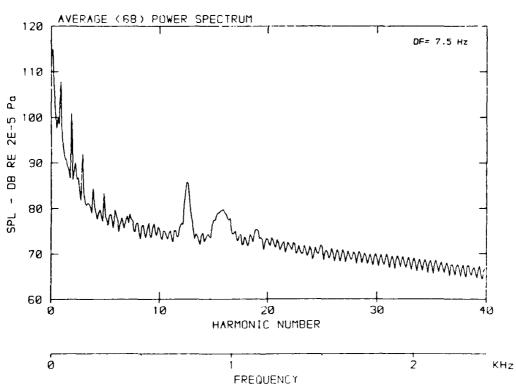


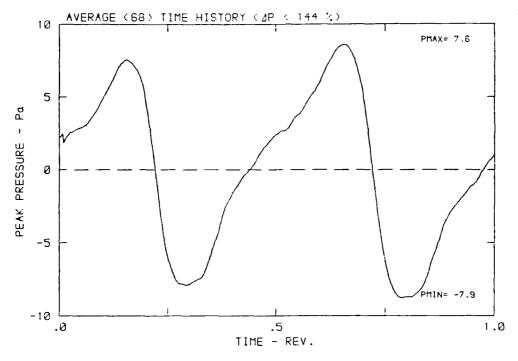
 $\beta\colon\,23.7^{\circ}\,$ MH: .5847 n: 1800 rpm v/u: .268 $\varphi\colon\,7.3^{\circ}\,$ T: 286.1 K

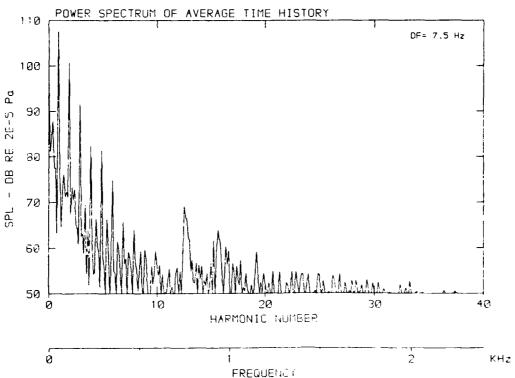




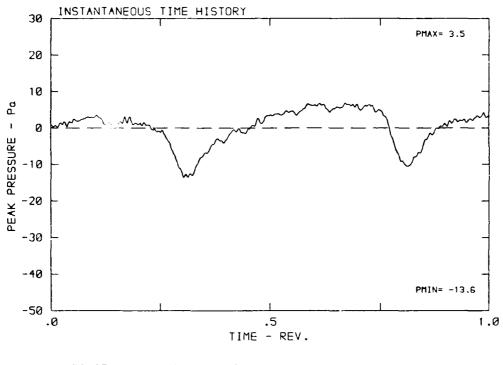


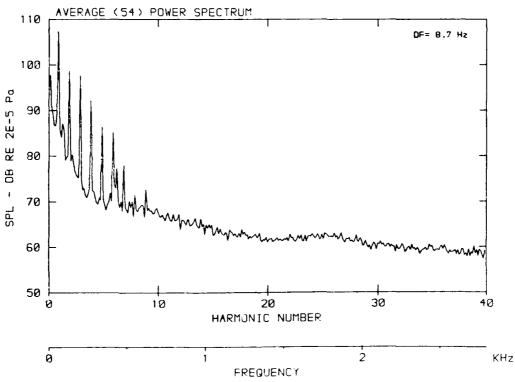




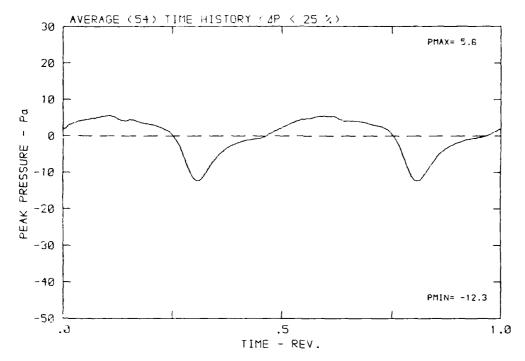


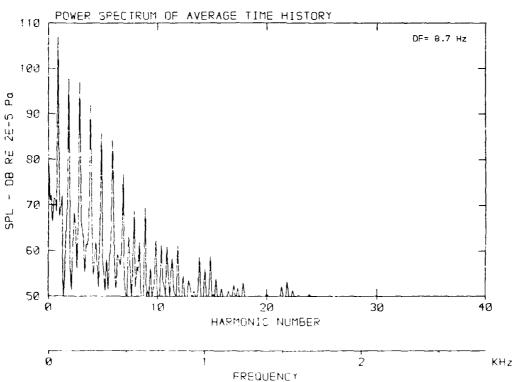
β: 23.7° MH: .6755 n: 2100 rpm ν/u: .231 φ: 7.3° T: 28€.7 K



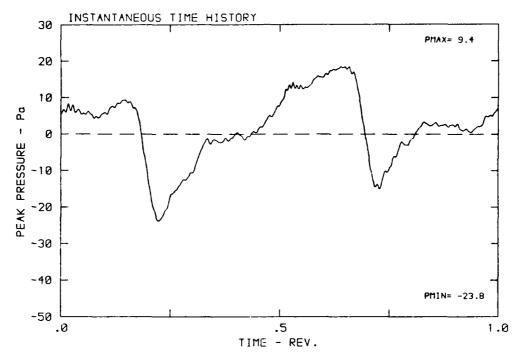


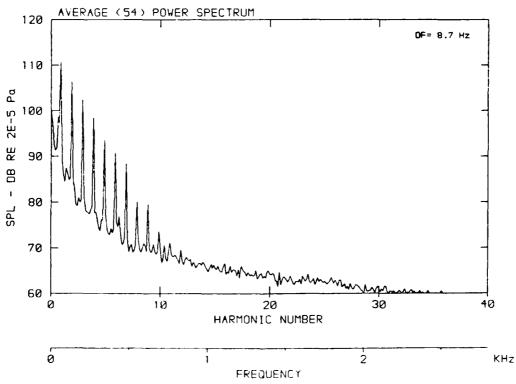
 $\beta\colon\,23.7^{\text{o}}\,$ MH: .6755 n: 2100 rpm v/u: .231 $\varphi\colon\,7.3^{\text{o}}\,$ T: 286.7 K



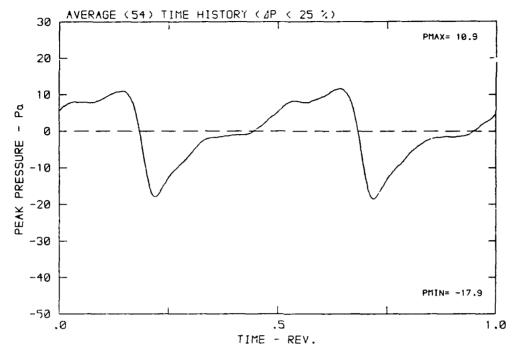


 β : 23.7° MH: .6755 n: 2100 rpm v/u: .231 ϕ : 7.3° T: 286.7 K

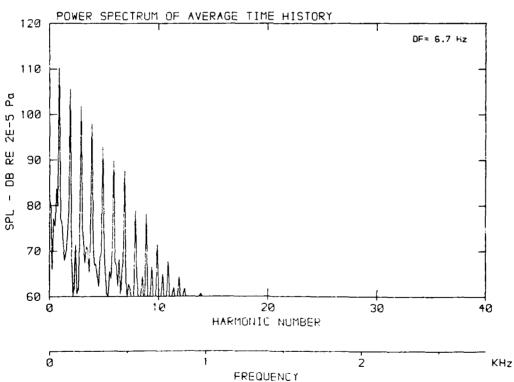




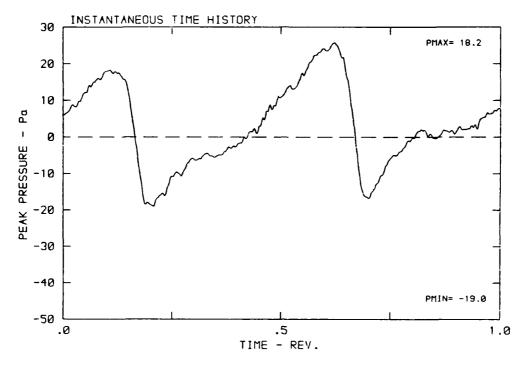
 β : 23.7° MH: .6755 n: 2100 rpm v/u: .231 ϕ : 7.3° T: 286.7 K

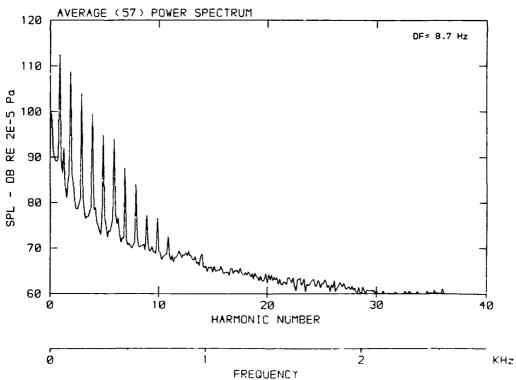


THE RESIDENCE SENSES. BUILDING CONTROL BUILDING

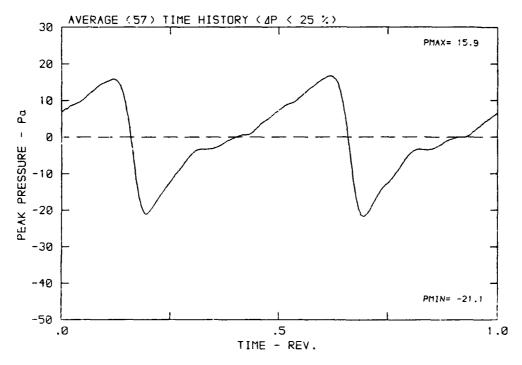


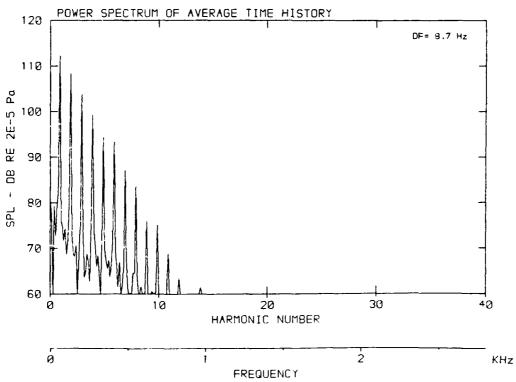
 $β: 23.7^{\circ}$ MH: .6755 n: 2100 rpm v/u: .231 $φ: 7.3^{\circ}$ T: 286.7 K



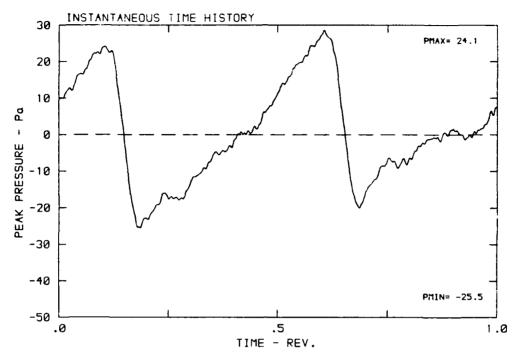


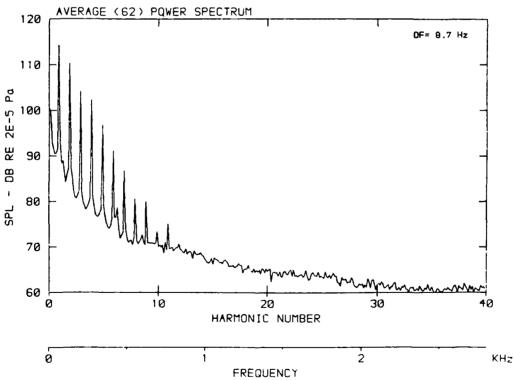
 β : 23.7° MH: .6755 n: 2100 rpm v/u: .231 ϕ : 7.3° T: 286.7 K



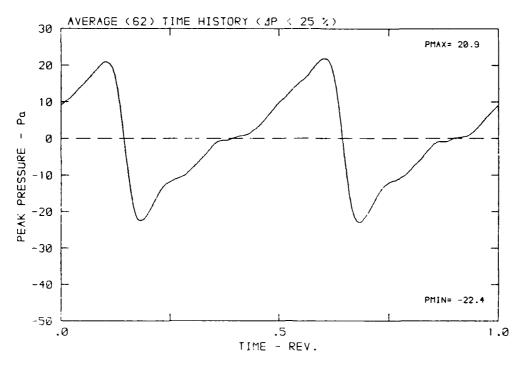


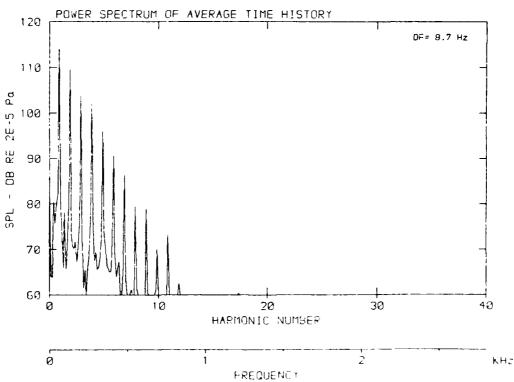
β: 23.7° MH: .6755 n: 2100 rpm v/u: .231 φ: 7.3° T: 286.7 K



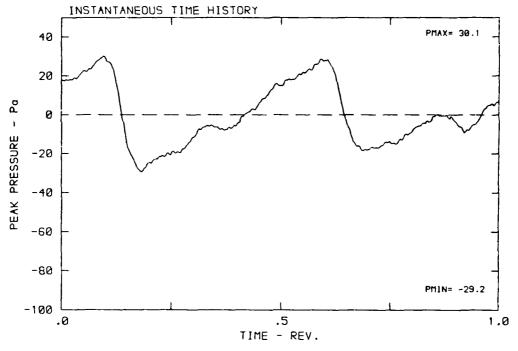


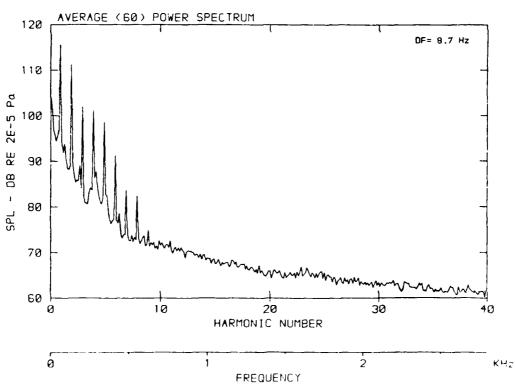
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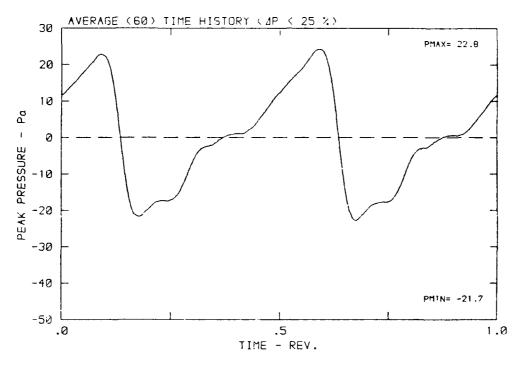


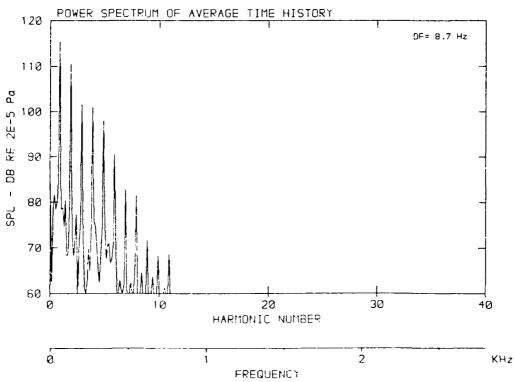
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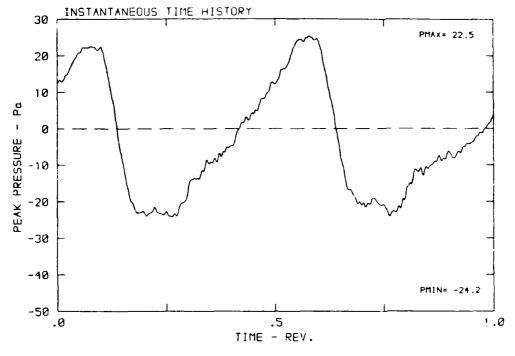


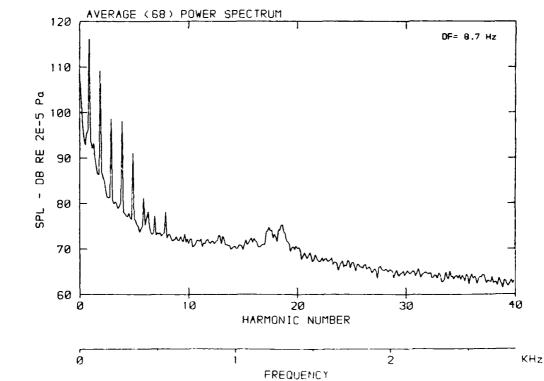
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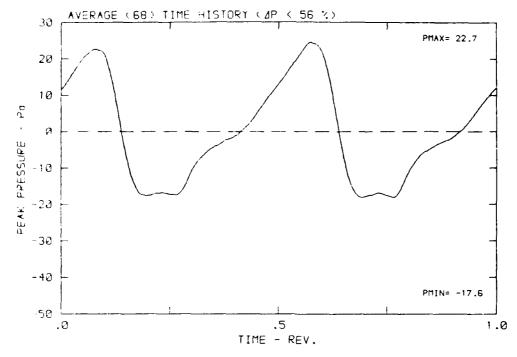


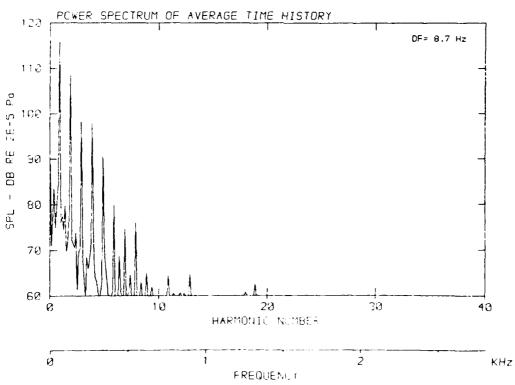
β: 23.7° MH: .6755 n: 2100 npm v/u: .231 φ: 7.3° τ: 286.7 κ



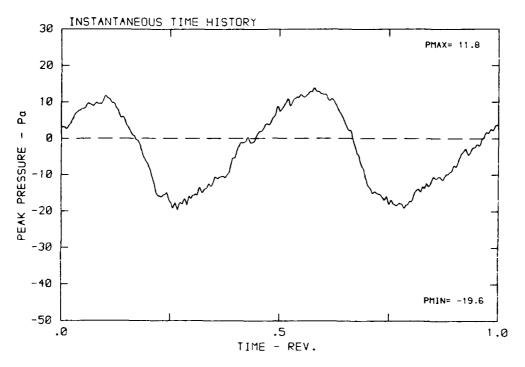


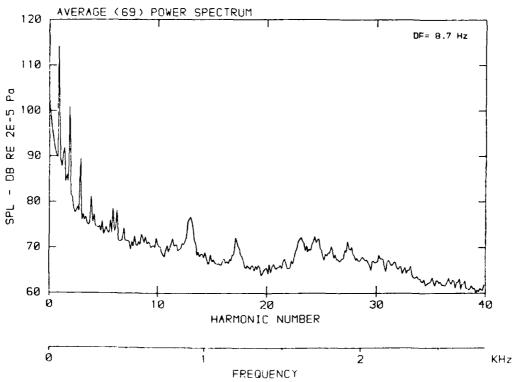
 $β: 23.7^{\circ}$ MH: .6755 n: 2100 rpm v/u: .231 $φ: 7.3^{\circ}$ T: 286.7 K



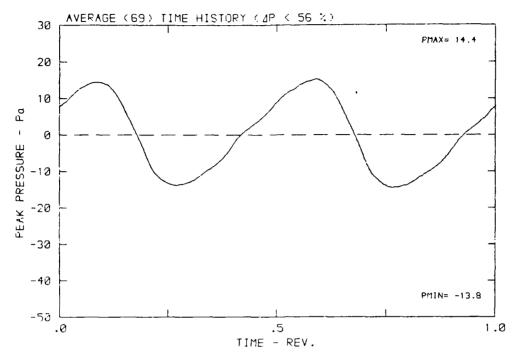


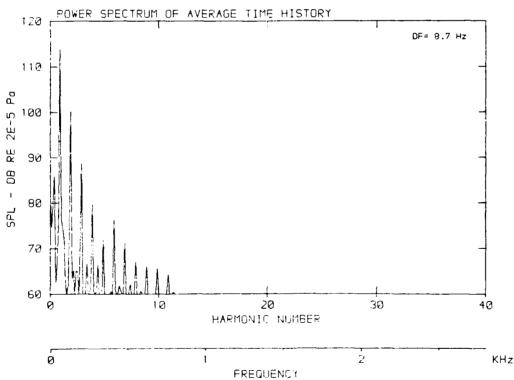
 β : 23.7° MH: .6755 n: 2100 rpm v/u: .231 ϕ : 7.3° T: 286.7 K



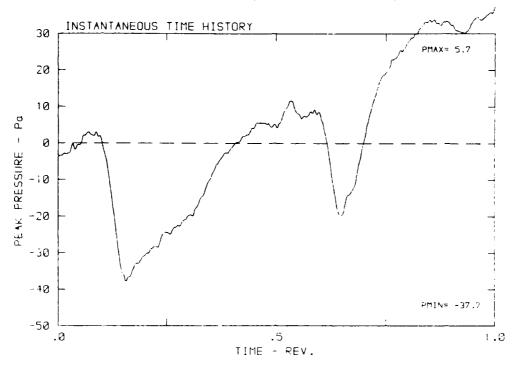


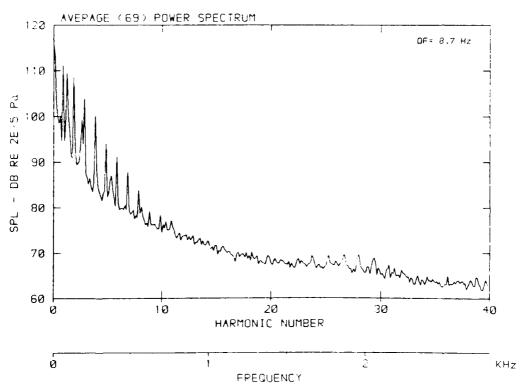
 β : 23.7° MH: .6755 n: 2100 rpm v/u: .231 ϕ : 7.3° T: 286.7 K



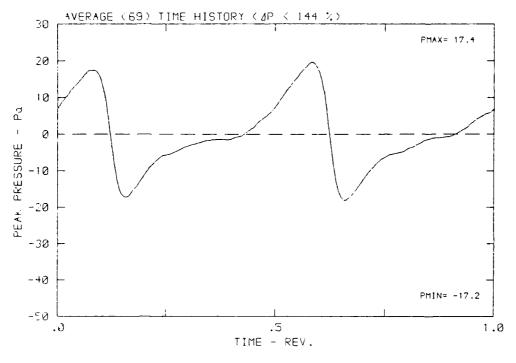


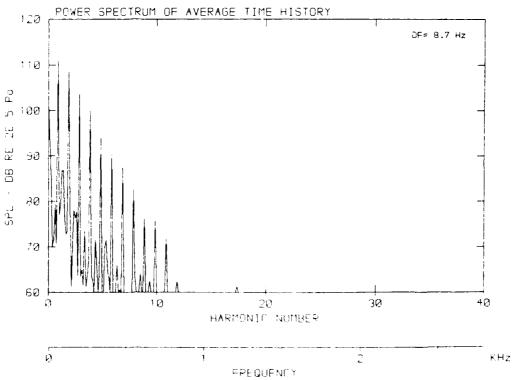
 β : 23.7° MH: .6755 n: 2100 rpm v/u: .231 ϕ : 7.3° T: 286.7 K



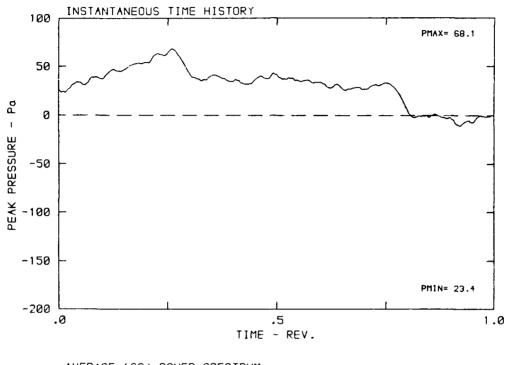


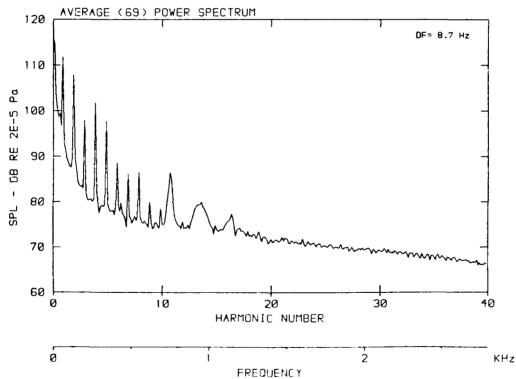
 $\beta\colon\,23.7^{\circ}\,$ MH: .6755 n: 2100 rpm v/u: .231 $\,$ $\psi\colon\,7.3^{\circ}\,$ T: 286.7 K



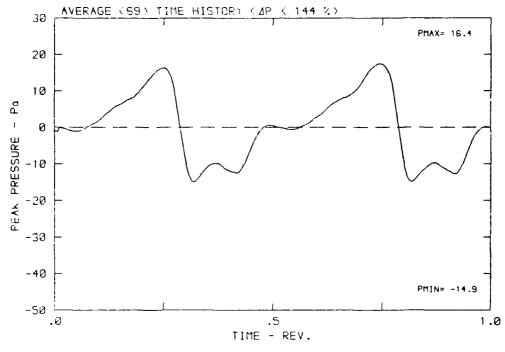


 $\beta\colon\,23.7^{\circ}\,$ MH: .6755 n: 2100 rpm v/u: .231 $\varphi\colon\,7.3^{\circ}\,$ T: 286.7 K

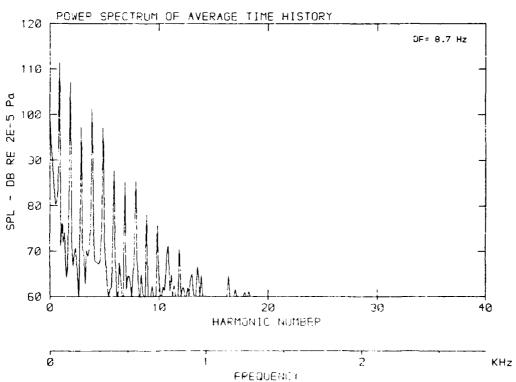




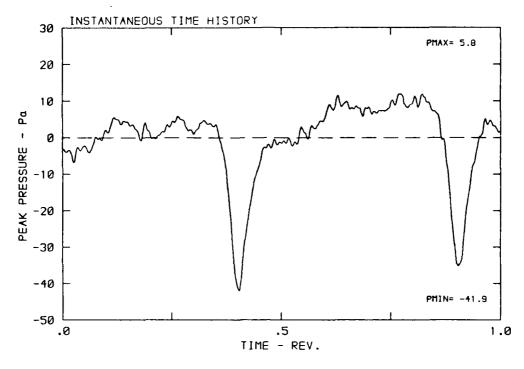
 β : 23.7° MH: .6755 n: 2100 rpm v/u: .231 ϕ : 7.3° T: 286.7 K

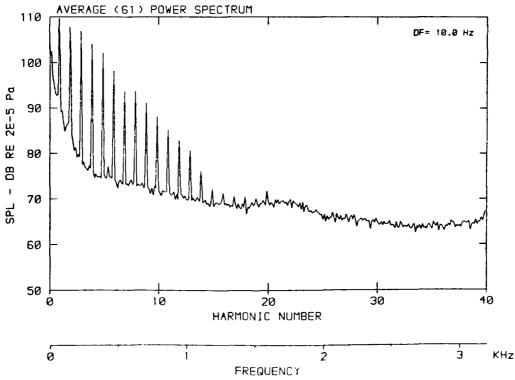


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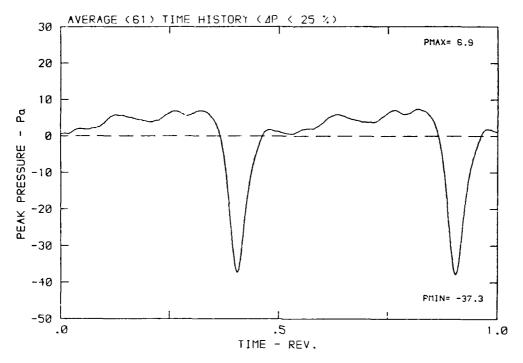


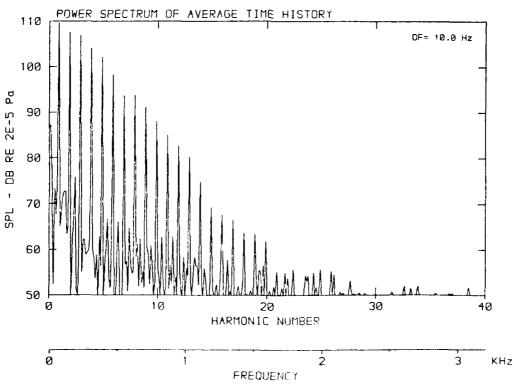
 β : 23.7° MH: .7773 n: 2400 rpm v/u: .263 ϕ : 7.3° T: 287.1 K



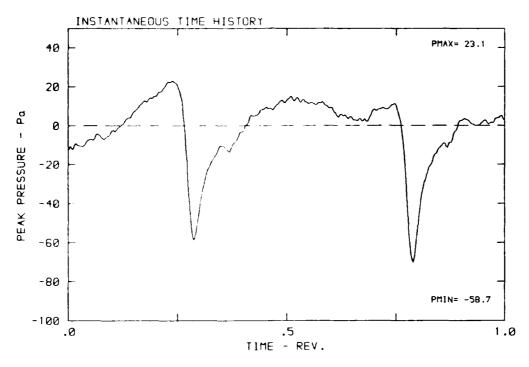


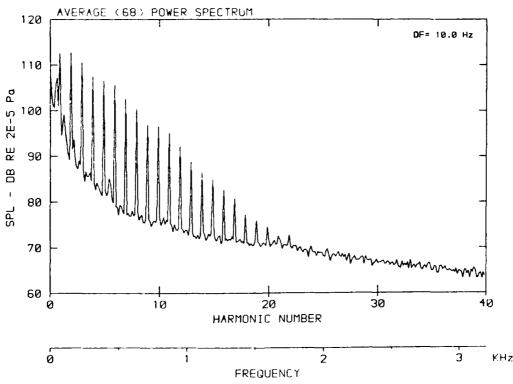
 $\beta\colon 23.7^{\circ}$ MH: .7773 n: 2400 rpm v/u: .263 $\varphi\colon 7.3^{\circ}$ T: 287.1 K



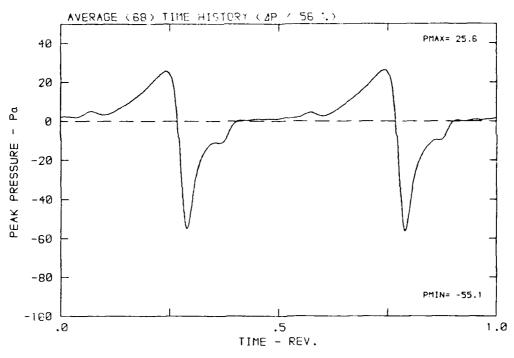


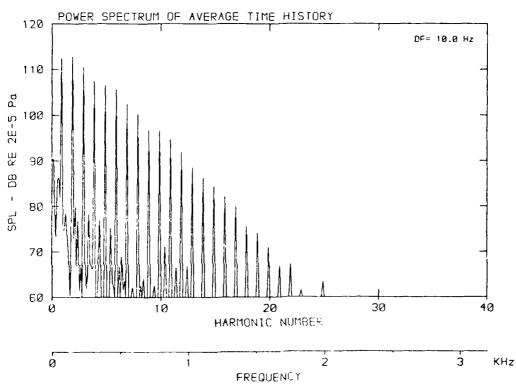
 $\beta\colon 23.7^{o}$ MH: .7773 n: 2400 rpm v/u: .263 $\varphi\colon 7.3^{o}$ T: 287.1 K





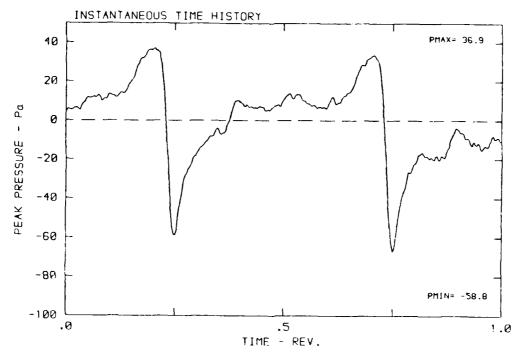
 $\beta\colon\,23.7^{o}\,$ MH: .7773 n: 2400 npm $\,$ v/u: .263 $\,$ $\varphi\colon\,7.3^{o}\,$ T: 287.1 K

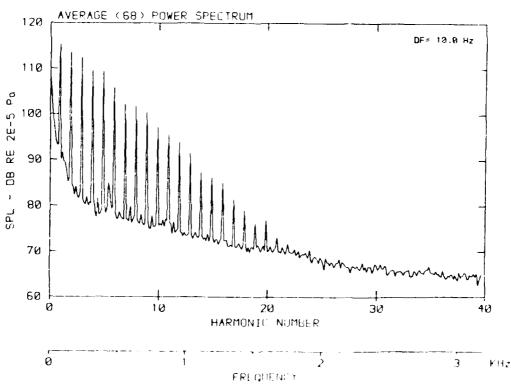




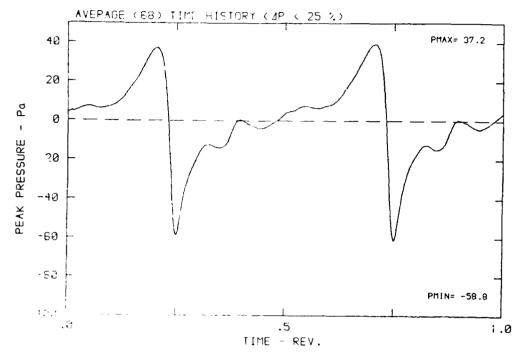
 β : 23.7° MH: .7773 n: 2400 rpm v/u: .263 ϕ : 7.3° T: 287.1 K

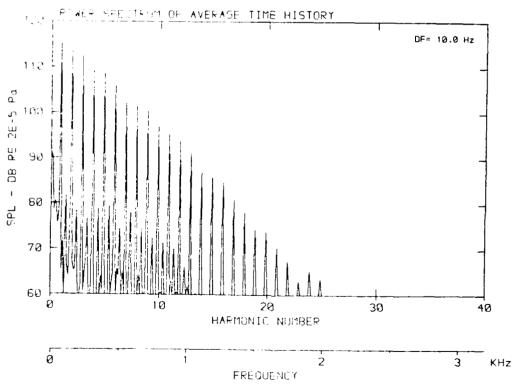
ンシンは、「それできたな」であるからない。



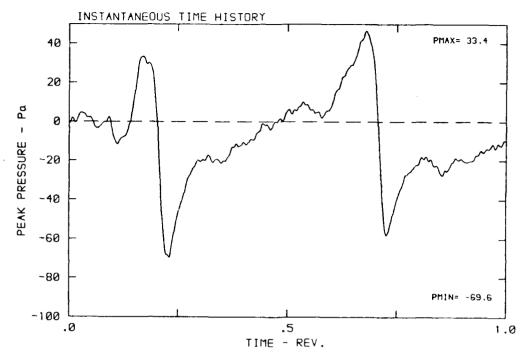


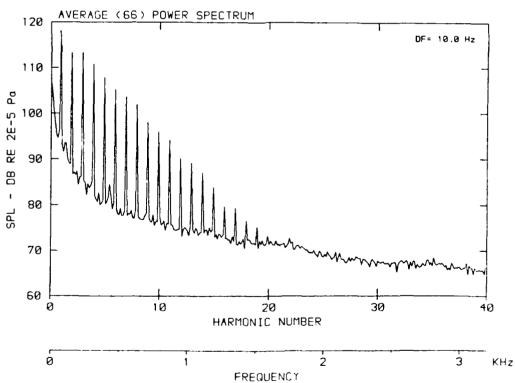
 β : 23.7° MH: .7773 n: 2400 rpm v/u: .263 ϕ : 7.3° T: 287.1 K



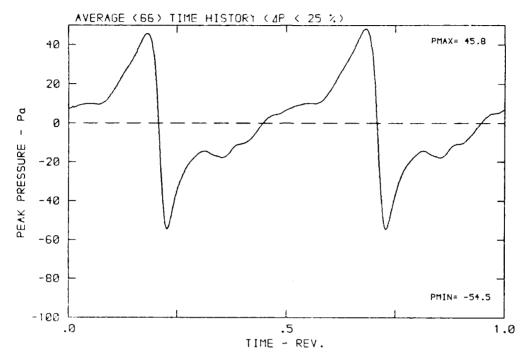


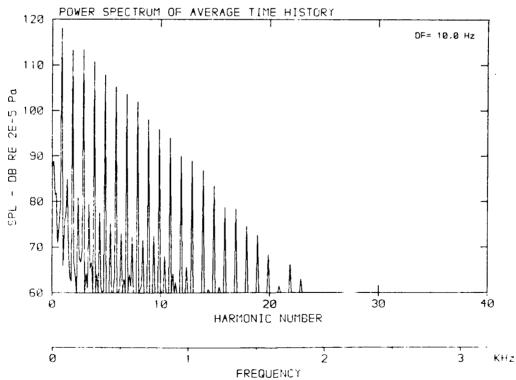
SOURCES RELEASED TO SOURCE SOURCE TO SOURCE
 β : 23.7° MH: .7773 n: 2400 rpm v/u: .263 ϕ : 7.3° T: 287.1 K



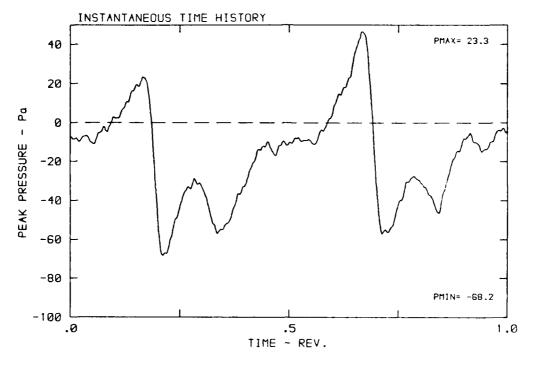


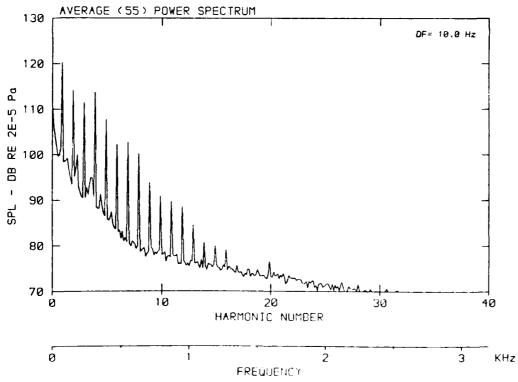
β: 23.7° MH: .7773 n: 2400 rpm ν/u: .263 φ: 7.3° T: 287.1 K



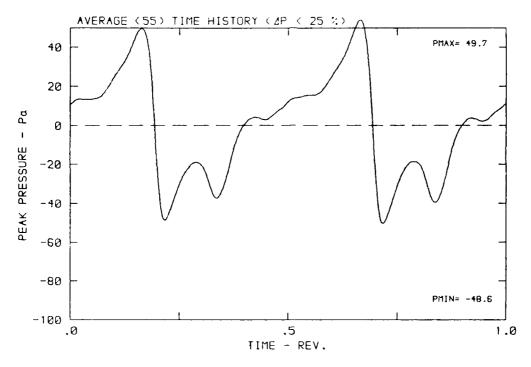


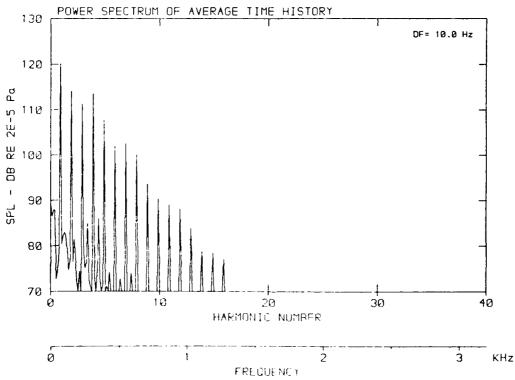
 β : 23.7° MH: .7773 n: 2400 rpm v/u: .263 ϕ : 7.3° T: 287.1 K



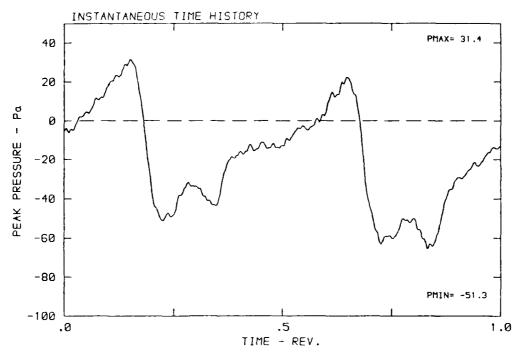


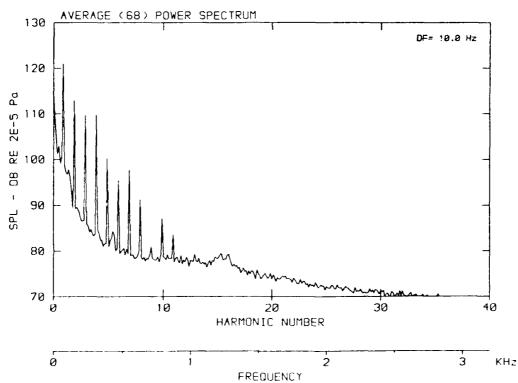
 $\beta\colon 23.7^{\circ}$ MH: .7773 n: 2400 rpm v/u: .263 $\varphi\colon 7.3^{\circ}$ T: 287.1 K



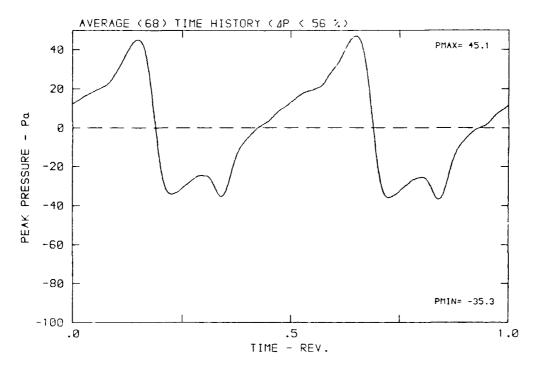


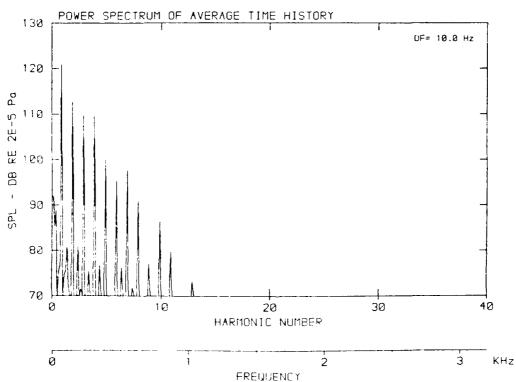
 β : 23.7° MH: .7773 n: 2400 rpm v/u: .263 ϕ : 7.3° T: 287.1 K



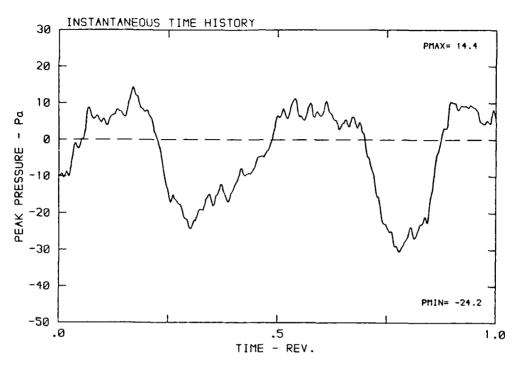


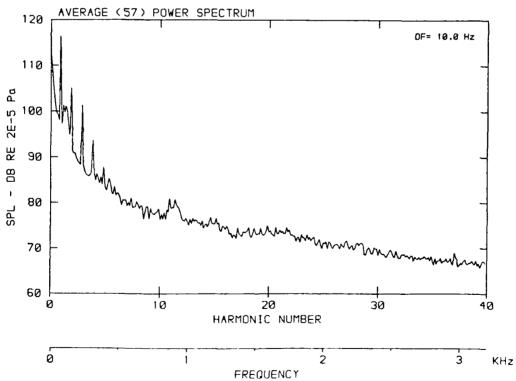
 $\beta\colon 23.7^{o}$ MH: .7773 n: 2400 rpm v/u: .263 $\varphi\colon 7.3^{o}$ T: 287.1 K



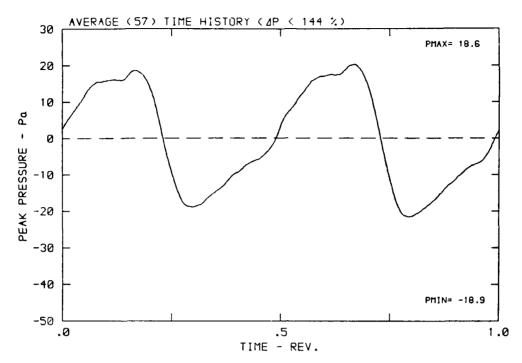


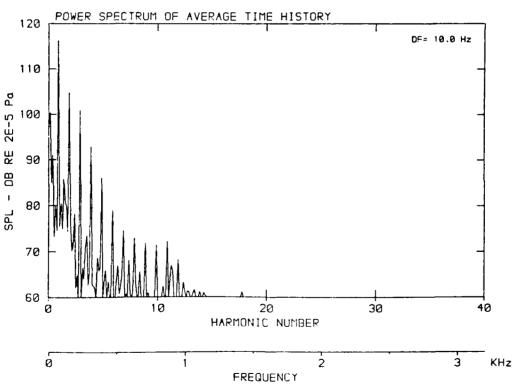
 $\beta\colon\,23.7^{\circ}\,$ MH: .7773 n: 2400 rpm v/u: .263 $\varphi\colon\,7.3^{\circ}\,$ T: 287.1 K



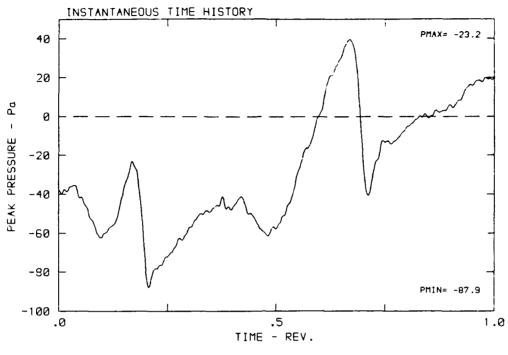


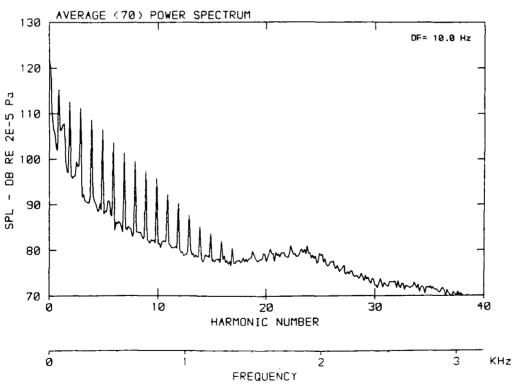
 β : 23.7° MH: .7773 n: 2400 rpm v/u: .263 ϕ : 7.3° T: 287.1 K



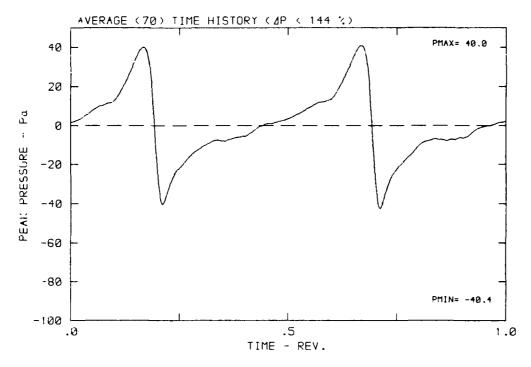


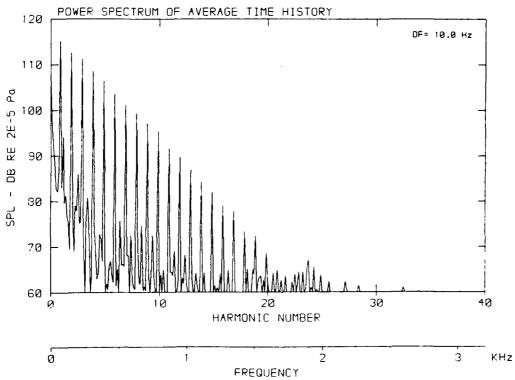
 $β: 23.7^{\circ}$ MH: .7773 n: 2400 rpm v/u: .263 $φ: 7.3^{\circ}$ T: 287.1 K



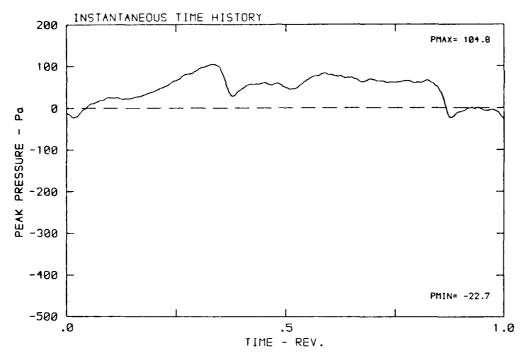


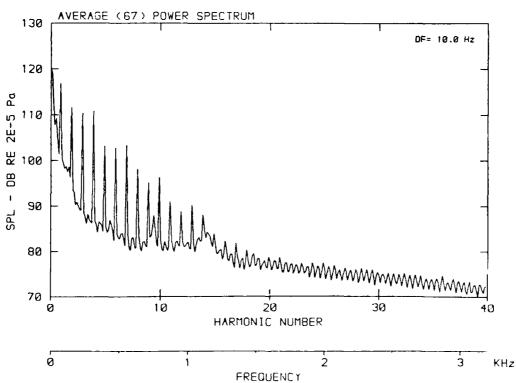
 $\beta\colon\thinspace 23.7^{\text{o}}$ MH: .7773 n: 2400 rpm v/u: .263 $\varphi\colon\thinspace 7.3^{\text{o}}$ T: 287.1 K



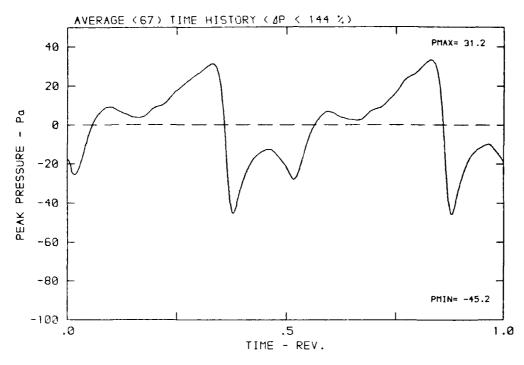


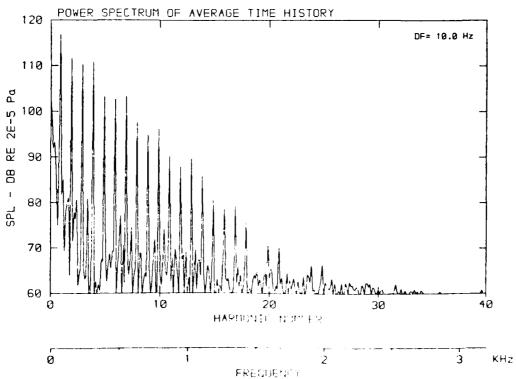
 β : 23.7° MH: .7773 n: 2400 rpm v/u: .263 ϕ : 7.3° T: 287.1 K





 β : 23.7° MH: .7773 n: 2400 rpm v/u: .263 ϕ : 7.3° T: 287.1 K





6. Propeller Rotational Harmonic Noise- and Overall Noise Levels

From all spectra of averaged time-histories the harmonic pressure levels are determined under the presupposition of a 10 dB signal-to-noise ratio, and are submitted to the A-weighting function. Both linear and A-weighted harmonic levels as well as the respective overall pressure levels (calculated from the energy sum of harmonic levels) are listed in the following tables.

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 19.9 DEG)

		DATA-POINT /										RUN								+ !		
+		 	GN	-1 +	/	151			 +	Gl	N-:	2	/ 1 4	L52				GN-	-3 +	/	153 +	
	HN		F	S	PL	S	PLA	į	 	F		SP	L	SP	LA		F		SE	L	SPL	A
į	1	: :	70.0	94		•	8.0	į	•	30.0	•	103.			.9	ij			108.		89.	•
ļ	_	: :	40.0	87		•	1.2	!	•	60.0	- [13	100.		86		!!	180.		103.		92.	
ļ		: :	10.0	83			2.2	ļ	•	0.0	!	94.			. 3	ļļ	270.		104.		95.	
ļ	_	: :	30.0	76		•	7.6	ļ	•	20.0	!	92.		85		!!	360.		98.		93.	
ļ		: :	50.0	74		•	7.7	1	•	0.0	1	86.			.9	!!	450.		94.		91.	•
1		: :	20.0	62		•	7.5	!	•	30.0	1	75.			.0		540.		87.		83.	•
ļ		: :	90.0	59			6.5	1	•	0.0	Į	78.			.9	! !	630.		92.		90.	•
ļ	_	: :	50.0	67		•	4.1	1	•	0.0	1	69.		67		! !	720.		91.		90.	•
-			30.0	59		•	7.2		•	20.0	ļ	62.			.5	!!	810.		79.		78. 85.	
1		: :	00.0 70.0	•	.0 .0		0.0	İ	•	0.0	!	70.0 52.3			. 8 . 5		900. 990.		85. 75.		65. 75.	•
1			40.0	:	.0	:	0.0	-	•	30.0 50.0	1	0.0					1080.		75.		75.	
ł		: :	10.0	:	.0	:	0.0	1	•	0.0	-	0.0					1170.		70.		70.	•
ļ	14	: :	30.0		.0	•	0.0	•	•	20.0	i	0.0					1260.		69.		69.	•
i		105		:	.0	•	0.0	•	•	0.0	-	0.0				: :	1350.		70.		71.	
i		1112		•	.0	•	0.0	•	128		i	0.0					1440.		57.		58.	
i		1119		1	.0	•	0.0		136		i	0.0		_		: :	1530.		0.		0.	
i			50.0	•	.0	•	0.0	•	•	0.0	i	0.0					1620.		0.		i 0.	
i		133		-	. 0	•	0.0		•	0.0	i	0.0					1710.		0.		0.	•
i		140		: .	. 0	•	0.0	•	•	0.0	i	0.0					1800.		0.		0.	:
i		147		:	. 0	•	0.0	•	168		i	0.0					1890.		0.		0.	•
i		154		:	. 0		0.0	•	•	0.0	i	0.0					1980.		0.		0.	•
i		116			. 0	•	0.0		•	0.0	i	0.0		0			2070.		0.		j o.	
i		168		0	. 0	:	0.0		j 192		i	0.0		_		٠.	2160.		0.		0.	οi
İ	25	175	50.0	0	. 0	į (0.0	Ĺ	200	0.0	İ	0.0	οj	0	.0	İÌ	2250.	0	0.	0	0.	οį
Ì	26	182	20.0	0	. 0	į (0.0	İ	208	0.0	İ	0.0	0	0	.0	İ	2340.	0	0.	0	0.	οj
-	27	189	90.0	0	. 0	(0.0		216	0.0	1	0.0	0	0	.0	11	2430.	0	0.	0	[0.	0
1	28	196	60.0	0	.0	(0.0	1	224	0.0	1	0.0	0	0	.0	1	2520.	0	0.	0	0.	0
1		203		1 0	.0	(0.0		232		1	0.0		0			2610.		0.	0	0.	0
1		210		0	. 0	•	0.0		240			0.0	•				2700.		0.		0.	0
1		217		•	. 0	•	0.0	•	248		Ţ	0.0					2790.		0.		0.	•
-			0.0		.0					0.0		0.0					2880.				1	0
			10.0	-	.0					0.0			-				2970.			0	:	0
-			30.0	:		:		- 1		0.0	- :		- 1				3060.			0	:	0
ļ			50.0			•		•	•	0.0	-		. :				3150.					0
ļ			20.0					•	288			0.0	:				3240.				0.	•
!			0.0	•		•		•	•	0.0	•				,	•	3330.					0
į			50.0			•		•	•	0.0	•						3420.				•	0
!				-		-											3510.					•
Ţ			0.0							0.0							3600.					0
+ _																						
1	(ASPI		95.	. 4	7:	7.2	İ			1	105.8	3	92	.1	11		ĺ	111.	2	101.	2
+																						

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 19.9 DEG)

	-	+ 			_	DATA-	POINT /	RUN	• •			
+	-+-	l GN:	-1 / :	151	 -	GN:	-2 / :	152		GN	-3 /	153 ++
HN	<u> </u>	F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA
1 1	į	<u> </u>	100.8	•			103.6			:	110.7 116.5	91.6 105.6
2	-		97.6 92.7	81.5 81.8		•	103.6	•		•	•	95.4
1 3	ļ	•	87.6		1	:	97.5	:		•	•	103.7
1 5	ı	280.0 350.0	82.2	:	 		94.4	:		•	•	102.7
1 6	1	1 420.0	76.7	:	1		93.3	90.1		•	•	101.5
1 7	1		70.7			:	88.9	85.7		•	•	100.1
8	1	560.0	70.0	68.1	! !	640.0	84.0	82.1		720.0	94.8	94.0
0	ł	630.0	0.0	0.0	1	720.0	76.6	75.8		810.0	97.5	96.7
10	1	700.0	0.0	0.0	ŀ	800.0	78.1	77.3		900.0	96.6	96.6
111	-	770.0	0.0	0.0	i	880.0	75.8	75.0		990.0	92.5	92.5
12	- 1	840.0	0.0	0.0	í	960.0	69.6	69.6		1080.0	87.8	87.8
1 13	ì	910.0	0.0	•	ì	1040.0	60.6			1170.0	89.4	90.0
14	i	980.0	0.0	•	•	1120.0	0.0			1260.0	85.0	85.6
1 15	i	1050.0	0.0	•	•	1200.0	0.0			1350.0	85.6	86.2
16		1120.0	0.0			1280.0	0.0	, ,		1440.0	77.1	78.1
17	•	1190.0	0.0	•	•	1360.0	0.0			1530.0	74.6	75.6
18	•	1260.0	0.0	•	•	1440.0	0.0	0.0	Ì	1620.0	74.6	75.6
19	•	1330.0	0.0	•	•	1520.0	0.0	0.0	Ì	1710.0	71.1	72.1
20	•	1400.0	0.0	•	•	1600.0	0.0	0.0		1800.0	0.0	0.0
j 21		1470.0	0.0	0.0	İ	1680.0	0.0	0.0		1890.0	0.0	0.0
22	-	1540.0	0.0	0.0	İ	1760.0	0.0	0.0		1980.0	0.0	0.0
23	i	1610.0	0.0	0.0	ĺ	1840.0	0.0	0.0	П	2070.0	0.0	0.0
24	i	1680.0	0.0	0.0	١	1920.0	0.0	0.0		2160.0	0.0	0.0
25	Ĺ	1750.0	0.0	0.0	l	2000.0	0.0	0.0	1	2250.0	0.0	0.0
26	Ì	1820.0	0.0	0.0	l	2080.0	0.0	0.0	1	2340.0	0.0	0.0
27	1	1890.0	0.0	0.0	ļ	2160.0	0.0			2430.0	0.0	0.0
28		1960.0	0.0	•	•	2240.0	0.0			2520.0	0.0	0.0
29	•	2030.0	0.0	•	•	2320.0	0.0			2610.0	0.0	0.0
30		2100.0	0.0	•	•	2400.0	0.0			2700.0	0.0	0.0
31		2170.0	0.0			2480.0	0.0	•		2790.0	0.0	0.0
		2240.0	0.0			2560.0	0.0			2880.0	0.0	0.0
•		2310.0	0.0	:		2640.0	0.0			2970.0	0.0	0.0
34	•	2380.0	0.0	•	:	2720.0	0.0			3060.0	0.0	0.0
35	•	2450.0	0.0	•		2800.0	0.0			3150.0		0.0
36	•	2520.0	0.0	:		2880.0	0.0			3240.0		0.0
37		2590.0	0.0	•	•	2960.0	•			3330.0		0.0
38	•	2660.0	0.0	•	•	3040.0				3420.0		0.0
•	•	2730.0		•	•	3120.0			•	3510.0		
		2800.0 				3200.0				3600.0		0.0
		+										
•												110.9

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 19.9 DEG)

	4	+ 			-	DATA-	POINT /	RUN			
+	- 4-	GN	-1 /	151 +	1	J GN	-2 /] GN	-3 /	153 +
HN	-+-	F	SPL	SPLA	1	F	SPL	SPLA	F	SPL	SPLA
1	•	:	103.0	:	İ	•	105.8	83.3	•	111.0	91.9
2	•	140.0	99.8	83.7	ļ	•	106.1	92.7	•	110.1	99.2
3	•	210.0	94.3	83.4	ł	•	103.3	94.7	•	109.5	100.9
4	•	280.0	91.6	83.0	1	•	100.0	93.4	360.0	•	1105.0
5	-		87.1	80.5		•	99.3	94.5	450.0	•	106.2
6	- [420.0	83.8	79.0	1	•	97.4	94.2	•	•	102.2
7	ļ	490.0	76.6	73.4		•	90.7	•	•	•	104.4 104.8
8	-	560.0	71.7 69.1	68.5	1	640.0	90.2	:	•	•	104.6
9	-	630.0 700.0	63.0	61.1	1	720.0 800.0	85.3	:	•	•	102.3
1 11	1		1 0.0		1		79.6	: _ :		99.8	99.8
1 12	•	:	0.0	0.0	1	960.0	77.5	•	1080.0	98.6	98.6
1 13	•		0.0	0.0	ł	1040.0	74.4		1170.0	92.5	93.1
14	•	980.0	0.0	0.0		1120.0	68.7		1260.0	95.4	96.0
15	•	1050.0	0.0	0.0		1200.0	65.7		1350.0	92.2	92.8
16		1120.0	0.0	0.0	•	1280.0	67.0		1440.0	90.4	91.4
17		1190.0	•	•	•	1360.0	62.6	•	1530.0	86.5	87.5
18		1260.0		:		1440.0	52.1		1620.0	88.1	89.1
19		1330.0	0.0	•	- 1	1520.0	0.0	•	1710.0	84.2	85.2
20		1400.0	0.0	•	•	1600.0	0.0	•	1800.0	79.2	80.4
21	i	1470.0	0.0	0.0	Ì	1680.0	0.0	0.0	1890.0	78.8	80.0
22	i	1540.0	0.0	0.0	İ	1760.0	0.0	0.0	1980.0	76.4	77.6
23	11	1610.0	0.0	0.0	1	1840.0	0.0	0.0	2070.0	73.2	74.4
24		1680.0	0.0	0.0	1	1920.0	0.0	0.0	[2160.0	68.7	69.9
25		1750.0	0.0	0.0	1	2000.0	0.0	0.0	2250.0	72.3	73.6
26		1820.0	0.0	0.0		2080.0	0.0	0.0	2340.0	69.7	71.0
27		1890.0	0.0	•	•	2160.0	0.0	•	2430.0	67.3	68.6
28		1960.0	0.0	•	•	2240.0	0.0		2520.0	69.7	71.0
29		2030.0	0.0		•	2320.0	0.0		2610.0	66.0	67.3
30		2100.0	0.0	•	•	2400.0	0.0		2700.0	64.5	65.8
31		2170.0	0.0	•	•	2480.0	0.0	•	2790.0	0.0	0.0
		2240.0				2560.0	0.0		2880.0		: :
•		2310.0	-		- 1	2640.0		: :	2970.0		:
•		2380.0			•	2720.0			3060.0		0.0
,		2450.0			- 1	2800.0			3150.0		0.0
•		2520.0 2590.0			•	2880.0 2960.0	0.0		3240.0 3330.0		0.0
		2590.0 2660.0		•	•	3040.0	0.0 0.0	•	3420.0	•	0.0 0.0
					•				3510.0		
•		2800.0				3200.0			3600.0		
									+		
									· +		
1	O.A	ASPL	105.4	89.7	1		111.1	101.7	1	118.31	113.6
									÷		

F - FREQUENCY HZ

SCORES SCORES RECEIVED DESCRIPTION DESCRIPTION OF THE PROPERTY OF THE PROPERTY DESCRIPTION OF THE PROPERTY OF

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 19.9 LEG)

	+ !		• • • • • • •	DATA-	POINT /	RUN			<u>+</u> !
++	GN-	-1 /	151	GN	-2 /	152	GN	-3 /	 153 ++
HN	F	SPL	SPLA	 	SPL	SPLA	F	SPL	SPLA
1 1	•	104.5	•	• •	109.6	87.1	:	111.4	92.3
! - !	•	100.7	•	160.0	106.0	92.6	•	110.2	99.3
1 3 1	210.0	94.8	•	240.0	105.4	96.8	•	112.4	103.8
4	280.0	94.3	85.7	320.0	103.7	97.1	•	1	1105.7
5	350.0	88.5	81.9	400.0	100.3	95.5	•	110.0	106.8
6	420.0	83.6	78.8	480.0	97.7	94.5	•	•	105.7
1 7 1	490.0	78.7	75.5	560.0	96.6	93.4	•	•	106.2
8	560.0	77.1	73.9	640.0	94.1	92.2	•	<u>.</u>	1105.8
9	630.0	71.6	69.7	720.0	88.8	88.0	•	•	104.6
10 [700.0	61.5	59.6	800.0	86.9	86.1	•	•	1103.9
11	770.0	0.0	0.0	880.0	85.7 79.3	84.9	•	•	102.9 101.7
12	840.0	0.0		960.0	79.3	•	•	•	101.7
13	910.0	0.0	•	1040.0 1120.0	74.9		1260.0	95.8	96.4
14	980.0 1050.0	0.0 0.0	•	1120.0	73.1	, ,	1350.0	97.3	97.9
	11120.0	0.0	•	11200.0	68.3		1440.0	95.6	96.6
	1120.0	0.0	•	11360.0	69.1	,	1530.0	90.7	91.7
	11260.0	0.0		11440.0	64.7	•	1620.0	91.4	92.4
	1330.0	0.0		11520.0	61.1	•	1710.0	89.4	90.4
20	1400.0	0.0	•	1600.0	53.2		1800.0	87.1	88.3
	1470.0	0.0	•	1680.0	0.0		1890.0	85.0	86.2
	1540.0	0.0		1760.0	0.0		1980.0	81.2	82.4
	1610.0	0.0	•	1840.0	0.0		2070.0	80.8	82.0
•	1680.0	0.0	•	1920.0	0.0		2160.0	79.1	80.3
1	1750.0	0.0		2000.0	0.0		2250.0	77.0	78.3 i
•	1820.0	0.0	•	2080.0	0.0		2340.0	74.8	76.1
	1890.0	0.0	:	2160.0	0.0	0.0	2430.0	74.5	75.8
	1960.0	0.0	•	2240.0	0.0	0.0	2520.0	70.0	71.3
	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	71.9	73.2
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	69.4	70.7
31	2170.0	0.0		2480.0	0.0		2790.0	62.4	63.7
32	2240.0	0.0		2560.0	0.0		2880.0		68.0
	2310.0			2640.0	0.0		2970.0	:	: :
34	2380.0	0.0		2720.0	0.0		3060.0	•	•
35	2450.0	0.0		2800.0	0.0		3150.0	•	:
36	2520.0	0.0	•	[[2880.0	0.0		3240.0		:
•	12590.0		•	2960.0			3330.0	•	•
	2660.0		•	3040.0	•		3420.0		
	•	•	•	3120.0	•		3510.0		
40	2800.0	0.0	0.0	3200.0			3600.0		0.0
++	+	+ 	+	┝┿~	+		+	+	++
				<u></u> 					
i c	ASPL	106.7	91.1		1112.2	103.8	 +	T T A * \	112.6
+		r	+	r			,	T	+

F - FREQUENCY HZ

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SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 19.9 DEG)

	+- !					DATA-	POINT /	RUN	~		
+	 	GN-	-1 /	151		GN.	-2 /	•	GN	-3 /	153
HN		F	SPL	SPLA		F	SPL		•	SPL	SPLA
1 1			105.0	78.8			112.6	90.1	•	110.9	91.8
2	1 1		101.8	85.7	! !		107.1	93.7	180.0	110.6	99.7
3	: :	210.0	93.4	82.5		•	103.6	95.0	•	1113.6	105.0
4	7.7	280.0	93.3	84.7		•	106.8	100.2	•	114.8	110.0
5		350.0	90.0	•	1 1		102.9	98.1	•	•	103.0
6		420.0	83.1	•	1		95.4	92.2	540.0	•	106.3
7 8	1 1	490.0	75.8 77.2		!!		97.7 95.2	94.5 93.3	630.0 720.0	•	107.9 104.9
: -		560.0 630.0	73.3				91.4	93.3 90.6	•	•	104.5
1 9		700.0	64.8	62.9	 	720.0 800.0	88.0	87.2	•	Ī.	104.3
111		770.0	64.9	64.1	! ! ! !	880.0	85.2	84.4	•	1	103.2
1 12		840.0	58.7	57.9	 	960.0	84.8	•	•	•	101.2
1 13		910.0	0.0		, , 1 I	1040.0	81.0	•	•	•	100.7
14	: :	980.0	0.0	•		1120.0	74.8	: :	1260.0	100.1	100.7
15		050.0	0.0			1200.0	73.3	73.9	1350.0	96.5	97.1
16		120.0	0.0			1280.0	73.4	74.0	1440.0	95.4	96.4
17		190.0	0.0	-		1360.0	68.2		1530.0	94.0	95.0
18		260.0	0.0			1440.0	60.5		1620.0	90.7	91.7
•		330.0	0.0			1520.0	0.0		1710.0	90.1	91.1
•		400.0	0.0			1600.0	0.0		1800.0	88.8	90.0
•		470.0	0.0	•		1680.0	0.0	0.0	1890.0	85.5	86.7
22	111	540.0	0.0	0.0	H	1760.0	0.0	0.0	1980.0	85.4	86.6
23	111	610.0	0.0	0.0		1840.0	0.0	0.0	2070.0	83.8	85.0
24	1	680.0	0.0	0.0		1920.0	0.0	0.0	2160.0	81.3	82.5
25	1	750.0	0.0	0.0		2000.0	0.0	0.0	12250.0	79.8	81.1
26		820.0	0.0			2080.0	0.0		2340.0	77.9	79.2
27		890.0	0.0			2160.0	0.0		2430.0	75.0	76.3
28		960.0	0.0		•	2240.0	0.0		2520.0	73.5	74.8
•		030.0	0.0			2320.0	0.0		2610.0	70.7	72.0
] 30		100.0	0.0		•	2400.0	0.0	0.0	2700.0	69.2	70.5
•		170.0	0.0			2480.0	0.0		2790.0	0.0	0.0
		240.0				2560.0			2880.0		
•		310.0	•		: :	2640.0			2970.0		
		380.0				2720.0			3060.0	:	
-		450.0			•	2800.0			3150.0	•	
•		520.0				2880.0 2960.0	0.0		3240.0		0.0
		590.0 660.0	0.0		•	3040.0	0.0	:	3330.0 3420.0	•	0.0
•		730.0	•			3120.0			3510.0	•	0.0 0.0
•		800.0	•			3200.0			3600.0		0.0
									+ 		
									+		
	OASI		107.2					105.1 J		120.7	
+					+				+	+ - -	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

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MICROPHONE: MP 6 (PITCH ANGLE: 19.9 DEG)

		DATA-POINT / RUN										
+	 GN ++	-1 /	151 	1	GN	-2 /	152	 -	GN	-3 /	153 ++	
HN	F	SPL	•	•	•	SPL	SPLA	 -	F	SPL	SPLA	
1 1	• •	104.4	78.2	į	•	114.5	•	1	•	1109.3	90.2	
2	• •	100.3	84.2	1	*	106.5	93.1	ļ	•	108.4	97.5	
3	210.0	91.1	80.2	!	•	104.5	•	ļ	•	110.2	101.6	
4	1 280.0	92.0	83.4	1	•	106.2			•	109.5 102.4	104.7	
•	350.0	88.8	82.2		400.0	99.4	•		•	•	99.2 104.5	
6	1 420.0	76.1	71.3	1	480.0	93.7	90.5	!	•	•	1104.5	
	490.0	75.0		1	560.0	96.2	•		•	99.1	102.9	
•	560.0	74.5	71.3	1	640.0	90.8	•	: 	•	•	102.3	
	630.0	68.2	•	1	720.0	80.5	•		:	98.2	98.2	
	700.0 770.0	58.3	56.4 0.0	1	800.0 880.0	86.7 81.9	85.9 81.1		990.0	95.2	95.2	
1 12	770.0 840.0	0.0	0.0	1	960.0	75.0	•		1080.0	96.9	96.9	
13	910.0	0.0	0.0	1	1040.0	74.4	74.4		1170.0	93.8	94.4	
1 14	980.0	0.0	0.0	•	1120.0	72.4	•	 	1260.0	91.3	91.9	
1 15	11050.0	0.0	0.0	•	1200.0	68.3	•	•	1350.0	91.9	92.5	
•	11120.0	0.0	0.0	•	1280.0	63.3	•	•	1440.0	88.0	89.0	
•	11190.0	0.0	0.0	•	1360.0	0.0	•	•	1530.0	84.2	85.2	
•	1260.0	0.0	0.0	•	1440.0	0.0	•	•	1620.0	82.7	83.7	
•] 1330.0	0.0	:	•	1520.0	0.0	•	•	1710.0	84.0	85.0	
•	11400.0	0.0	0.0	•	1600.0	0.0	:	•	1800.0	75.1	76.3	
•	1470.0	0.0	0.0	•	1680.0	0.0	•		1890.0	77.9	79.1	
•	1540.0	0.0	0.0	•	1760.0	0.0	:	•	1980.0	76.4	77.6	
•	1610.0	0.0	0.0	•	1840.0	0.0	•	۱	2070.0	65.4	66.6	
•	11680.0	0.0	0.0	•	1920.0	0.0	0.0	İ	2160.0	0.0	0.0	
-	1750.0	0.0	0.0	-	2000.0	0.0	0.0		2250.0	0.0	0.0	
26	1820.0	0.0	0.0	Ĺ	2080.0	0.0	0.0		2340.0	0.0	0.0	
27	1890.0	0.0	0.0	ĺ	2160.0	0.0	0.0		2430.0	0.0	0.0	
	1960.0	0.0	0.0	1	2240.0	0.0		•	2520.0	0.0	0.0	
•	2030.0	0.0	0.0	•	2320.0	0.0	•	•	2610.0	0.0	0.0	
•	2100.0	0.0	0.0	•	2400.0	0.0			2700.0	0.0	0.0	
•	2170.0	0.0	•	•	2480.0	0.0	•		2790.0	0.0	0.0	
	2240.0				2560.0	0.0			2880.0	0.0	0.0	
•	2310.0		-		2640.0				2970.0		: :	
•	2380.0				2720.0				3060.0	0.0	0.0	
•	2450.0	1			2800.0				3150.0	0.0	0.0	
•	2520.0	•			2880.0	0.0			3240.0	0.0	0.0	
•	2590.0	•	•		2960.0				3330.0	0.0	0.0	
•	2660.0	•	•	•	3040.0				3420.0	0.0	0.0	
•	2730.0	-		•	3120.0				3510.0	•	0.0	
,	2800.0 	•	•	•	3200.0				3600.0	•	0.0	
	++											
•	OASPL					116.1					111.8	
		•	•	•	•		•		•	•	. '	

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR (CONTRACTOR)

MICROPHONE: MP 7 (PITCH ANGLE: 19.9 DEG)

		+ !			DATA-	POINT /	RUN			+ !
+ -	4	 GN	-1 / :	151	GN	-2 / :	-	GN	-3 / :	
	HN	F	SPL	SPLA	, , F 	SPL	•		SPL	SPLA
į	1		100.5	•		111.5	1	•	110.8	91.7
!	2	:	91.5	•	•	103.0	•	180.0	0.0	0.0
!	3	:	88.0	77.1		99.6	: :	270.0	0.0	0.0
ļ	4	280.0	77.8	69.2	320.0	92.1	85.5	360.0	0.0	0.0
ł	5 6	350.0	0.0	0.0	400.0	87.6	82.8	450.0	0.0	0.0
l		!	0.0		480.0	77.3	74.1 76.8	540.0	1	0.0
 	7 8	:	0.0 0.0		560.0 640.0	80.0 76.3	70.6 74.4	630.0 720.0	0.0	0.0
-	9	630.0	0.0	:	640.0 720.0	58.9		810.0	0.0	0.0
! 	10	1	0.0		720.0	0.0	:	900.0	0.0	0.0
i	11	:	0.0		880.0	0.0	: :	990.0	0.0	0.0
	12	•	0.0	0.0	960.0	0.0	•	1080.0	•	0.0
i	:	910.0	0.0		1040.0	0.0	: :	1170.0	•	0.0
į		980.0	0.0		1120.0	0.0		1260.0	0.0	0.0
i		1050.0	0.0	0.0	1200.0	0.0	i 0.0 j	1350.0	0.0	0.0
İ	•	1120.0	0.0	0.0	1280.0	0.0	0.0	1440.0	0.0	0.0
ĺ	17	1190.0	0.0	0.0	1360.0	0.0	0.0	1530.0	0.0	0.0
1	18	1260.0	0.0	0.0	1440.0	0.0	0.0	1620.0	0.0	0.0
1	19	1330.0	0.0	0.0	1520.0	0.0	0.0	1710.0	0.0	0.0
}		1400.0	0.0	0.0	1600.0	0.0	•	1800.0	0.0	0.0
1	21	1470.0	0.0	0.0	1680.0	0.0		1890.0	0.0	0.0
	•	1540.0	0.0		1760.0	0.0	:	1980.0	0.0	0.0
1	•	1610.0	0.0		1840.0	0.0		2070.0	0.0	0.0
ļ	•	1680.0	0.0		1920.0	0.0		2160.0	0.0	0.0
!	•	1750.0	0.0		2000.0	0.0	:	2250.0	0.0	0.0
ļ		1820.0	0.0	0.0	2080.0	0.0	: :	2340.0	0.0	0.0
ŀ		1890.0	0.0	0.0	2160.0	0.0		2430.0	0.0	0.0
ļ		1960.0	0.0	0.0	2240.0	0.0		2520.0	0.0	0.0
l l	•	2030.0 2100.0	0.0	, ,	2320.0 2400.0	0.0		2610.0 2700.0	} 0.0 0.0	0.0
1		2170.0	0.0		2480.0	0.0		2790.0	0.0	0.0
l		2240.0	•		2560.0	•		2880.0	,	•
i		2310.0			2640.0	0.0		2970.0		
•		2380.0			2720.0	0.0		3060.0		_ :
•		2450.0			2800.0	0.0		3150.0		:
•	•	2520.0			2880.0	0.0		3240.0		0.0
•		2590.0			2960.0	0.0		3330.0		0.0
•	•	2660.0			3040.0	0.0		3420.0		0.0
		2730.0	0.0		3120.0	0.0	0.0	3510.0	0.0	0.0
İ	40 j	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0		0.0
+-					-+					
1										91.7
÷-					++					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 23.7 DEG)

	+			DATA-	POINT /	RUN			
+	 	N-3 /] CN	-4 /	100	CN	-7 / +	99
HN	F	SPL		• •	SPL	SPLA	F	SPL	SPLA
1	60.0	•	75.5	70.0	112.0	85.8	• •	113.9	91.4
	11 120.0	•	74.6	: :	98.4		: :	107.3	93.9
	180.0	•	•	1 210.0	93.2	•	: :	100.1	91.5
4	1 240.0	•	67.9	280.0	77.8	69.2	300.0	85.7	79.1
	300.0		67.6	350.0	78.2	71.6	375.0	77.6	72.8
	360.0	•	67.3	420.0	73.6	•	450.0	69.6	66.4
:	420.0	•	•	490.0	68.5		525.0	78.7	75.5
8	1 480.0	•		560.0	61.3	58.1	600.0	67.7	65.8
9	540.0	•	57.9	630.0	0.0		675.0	70.5	68.6
10	600.0	•	•	700.0	0.0	•	750.0	69.5	68.7
1 11	660.0	•	: ·	770.0	0.0	!	825.0	68.4	67.6
1 12	720.C		:	840.0	0.0	:	900.0	56.0	56.0
:	780.0		0.0	910.0	0.0	•	975.0	0.0	0.0
1 14	11 840.0		!	980.0	0.0	•	1050.0	0.0	0.0
15	900.0	•	:	1050.0	0.0	•	1125.0	0.0	0.0
16	960.C		:	1120.0	0.0	•	1200.0	0.0	0.0
1 17	1020.0 1080.0	•		1190.0 1260.0	0.0		11275.0	0.0 1 0.0	0.0
	1080.0		•	1200.0	0.0 0.0	:	1350.0 1425.0	0.0	[0.0 [
	11200.0	•	•	1400.0	0.0	:	11423.0	0.0	0.0 0.0
•	11260.0	•		1470.0	0.0		1575.0	0.0	0.0
•	1320.0	•	•	1540.0	0.0	•	1650.0	0.0	0.0
•	11380.0	•	•	1610.0	0.0		1725.0	0.0	0.0
-	11440.0	•		1680.0	0.0	•	11723.0	0.0	0.0
	11500.0	•	I .	1750.0	0.0	•	1875.0	0.0	0.0
•	11560.0	•		1820.0	0.0	-	1950.0	0.0	0.0
•	1620.0	•	•	1890.0	0.0	•	2025.0	0.0	0.0
•	1680.0	•	•	1960.0	0.0		2100.0	0.0	0.0
•	11740.0	•	-	2030.0	0.0		2175.0	0.0	0.0
•	1800.0	•	•	2100.0	0.0	• ,	2250.0	0.0	0.0
•	1860.0	•	•	2170.0	0.0	•	2325.0	0.0	0.0
•	1920.0	•	•	2240.0	•		2400.0	•	
_	1980.0			2310.0			2475.0		
	2040.0			2380.0			2550.0	•	
:	2100.0			2450.0	-		2625.0		:
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2700.0		: :
37	112220.0	0.0	0.0	2590.0			2775.0	•	
		0.0		2660.0	0.0	0.0	2850.0	0.0	0.0
		0.0					12925.0		
•		0.0					3000.0		
+		-+	+	+	·	h	++	+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

DNW PROPELLER NOISE TEST

SARAN NASASARA SARAKANA NEWARANA MENGASARA MENGASARA KANSARAN NEWARANA MENANGKANAN

MICROPHONE: MP 6 (PITCH ANGLE: 23.7 DEG)

	+					DATA-	POINT /	-	RUN .	-				
+	 	CN	i-3 /	101		CN.	-4 /	1+	00		l CN	-7 +	/	99
HN	 	F	SPL	SPLA		F	SPL	1	SPLA		F	S	PL	SPLA
1	• •		104.5	78.3		•	112.7	ļ	86.5		75.0	•		92.2
] 2	• •	20.0	97.8	81.7	Ц	,	107.4	1	91.3	ļ	•	1111		97.8
•		30.0	87.1	76.2	П	210.0	97.4	ļ	86.5	ļ	225.0	105		96.4
4	• •	40.0	72.8		Ц		97.1 92.7	i	88.5 86.1	1	•	104		97.4 93.7
1 6		00.0 60.0	0.0	•			81.3	l	76.5	1	375.0 450.0	•	.5	84.0
1 7	: :	20.0	0.0	:		•	80.6	ŀ	77.4	l	525.0	•	. 4	88.2
8	• •	30.0	0.0	•	Н	•	77.4	ļ		ŀ		•	.0	86.1
1 9	: :	40.0	0.0	:			66.2	l	64.3		675.0	•	. 1	72.2
10		0.0	0.0				0.0	1		1	:	•	. 1	75.3
111	: :	50.0	0.0				0.0	i			:	•	. 2	74.4
1 12		20.0	0.0		H		0.0	i	0.0		900.0	•	.4	68.4
1 13	: :	30.0	0.0	0.0	П	910.0	0.0	i	0.0	ì	975.0	•	. 3	62.3
1 14	: :	40.0	0.0	0.0	ΪΪ	980.0	0.0	i	0.0	i.	1050.0	•	.5	59.5
15	: :	0.0	0.0	0.0	ij	1050.0	0.0	i	0.0	•	1125.0		. 0	0.0
16		60.0	0.0	:	ii		0.0	i		•	1200.0		.0	j 0.0 j
j 17	: :	20.0	0.0	0.0	ij	1190.0	0.0	İ		•	1275.0	i o	.0	i 0.0 i
18	10	30.0	0.0	0.0	ij	1260.0	0.0	Ì	0.0	İ	1350.0	j o	.0	0.0
19	111	0.0	0.0	0.0	Ħ	1330.0	0.0	Ì	0.0	İ	1425.0	j 0	.0	0.0
20	12	0.0	0.0	0.0	Ħ	1400.0	0.0		0.0		1500.0	0	.0	0.0
21	12	50.0	0.0	0.0		1470.0	0.0	١	0.0	1	1575.0	0	.0	0.0
22	13:	20.0	0.0	0.0	П	1540.0	0.0	١	0.0	ı	1650.0	0	.0	0.0
-	13	30.0	0.0	0.0	П	1610.0	0.0	١		•	1725.0	0	.0	0.0
24	14	40.0	0.0	•		1680.0	0.0	١		•	1800.0	0	.0	0.0
25	: :	0.0	0.0	:	: :	1750.0	0.0	!		: .	1875.0	:	.0	0.0
26		60.0	0.0	•		1820.0	0.0	ļ		•	1950.0	•	. 0	0.0
27	: :	20.0	0.0	•		1890.0	0.0	ļ		•	2025.0	•	.0	0.0
28		30.0	0.0	•	: :	1960.0	0.0	ļ		•	2100.0	•	.0	0.0
29	• •	40.0	0.0	•		2030.0	0.0	1			2175.0 2250.0	!	.0	0.0
•	180 180		0.0			2100.0	0.0	1		•	2325.0	:	.0	0.0
•		20.0	0.0	•		2240.0	0.0 0.0	ł		•	2400.0	•	.0	0.0 0.0
1		30.0				2310.0	. *				2475.0		.0	1 1
•		0.0	•			2380.0	•	:			2550.0	•	.0	: :
•		0.0	•			2450.0		i			2625.0	•	.0	: :
		50.0	4			2520.0	0.0	i		•	2700.0	•	.0	: '
•		20.0	•			2590.0	0.0	i			2775.0	•	.0	0.0
•		30.0		1	: :	2660.0	0.0	İ		•	2850.0	•	.0	0.0
•	•	0.0	•	•		2730.0	•	ĺ			2925.0		.0	
40	240	0.0	0.0	0.0	l	2800.0	0.0	ĺ	0.0		3000.0	0	. 0	0.0
			+	+	++		+	+		⊢ ⊣	+	+		++
	DASP		105.4	84.2			114.0	ļ +	95.4		 +	116 	.9	103.3

⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 19.9 DEG)

+ HN	-+ 	 GN	-1 /									
i hn	i		+	151 +	1	•	-2 /	_		•	-3 /	153
+	-+	F	SPL	SPLA	•	•	SPL	•	•	•	SPL	SPLA
1 2	•	•	101.9	75.7 84.4		•	107.0 105.1	84.5 91.7	; 	•	107.7 109.3	88.6 98.4
3	i	•	95.4	84.5	i	240.0	105.0	96.4	i	•	:	100.7
4	-	•	91.1	82.5	1	320.0	101.5	94.9	l	360.0	108.8	104.0
5	-	•	84.8	78.2	1	400.0	99.4	94.6	1	•	•	104.8
6	1	•	81.8	•	İ		97.1	93.9	l	•	•	104.5
7	•	•	78.7	75.5	ĺ	560.0	94.8	91.6		•	106.6	104.7
8	-!	!	73.5	70.3	!		90.3	•	Į.	•	•	105.0
9	-	•	67.9	66.0	1		90.0	•	1	•	•	104.2
10	1	•	64.1	62.2	1	800.0	87.2	:	ļ	•	•	103.1
11 12	[0.0	0.0		880.0 960.0	83.1 80.6	•	1	•	101.9 100.0	101.9
1 13	1	910.0	0.0	0.0	1	1040.0	78.3	•	•	1170.0	98.3	100.0 98.9
14	¦	980.0	0.0	0.0	•	1120.0	74.0	•	•	1260.0	96.7	97.3
1 15	i	1050.0	0.0	0.0	•	1200.0	72.5	•	•	1350.0	94.8	95.4
16	•	1120.0	0.0	•		1280.0	68.0		•	1440.0	92.7	93.7
j 17		1190.0	0.0		-	1360.0	68.6	Ī :	•	1530.0	90.8	91.8
18	İ	1260.0	0.0	1		1440.0	63.2	•	•	1620.0	89.1	90.1
19	1	1330.0	0.0	0.0		1520.0	59.2	60.2		1710.0	87.8	88.8 j
20	-	1400.0	0.0	0.0		1600.0	0.0	0.0	1	1800.0	85.9	87.1
21		1470.0	0.0	•		1680.0	0.0	•	•	1890.0	85.1	86.3
22		1540.0	0.0	•		1760.0	0.0	•		1980.0	80.4	81.6
23	•	1610.0	0.0	I		1840.0	0.0	•	•	2070.0	80.2	81.4
24	•	1680.0	0.0	•		1920.0	0.0	•		2160.0	78.3	79.5
25		1750.0	0.0			2000.0	0.0		: :	2250.0	75.6	76.9
26		1820.0 1890.0	0.0	:		2080.0	0.0			2340.0	75.4	76.7
28		1960.0	0.0			2160.0 2240.0	0.0			2430.0 2520.0	72.8 69.7	74.1 71.0
29	•	2030.0	0.0	•		2320.0	0.0			2610.0	70.9	72.2
30	•	2100.0	0.0			2400.0	0.0			2700.0	67.1	68.4
31	•	2170.0	0.0		ij		0.0		• •	2790.0	67.3	68.6
•		2240.0				2560.0				2880.0		
33		2310.0	0.0	0.0		2640.0				2970.0		
		2380.0			Ħ	2720.0				3060.0		
		2450.0				2800.0		•	•	3150.0		0.0
		2520.0								3240.0	•	
		2590.0								3330.0		0.0
		2660.0								3420.0		0.0
										3510.0		0.0
										3600.0 		
1	0.	ASPL	105.0	89.7	11	1	111.7	102.6	1		117.8	114.1

F - FREQUENCY HZ

APPROPRIATE RESERVATION OF THE PROPERTY OF THE

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

	+ 			DATA-	POINT /	RUN			
	 GN	-1 /	151	[] GN	-2 /	152	GN	-3 /	153
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1	• •	100.7	•	• •	08.4	85.9	•	105.3	86.2
•	140.0	99.1	•	160.0	103.0	89.6	•	106.5	95.6
3	210.0	90.2	•	240.0	100.4	91.8	•	•	103.7
4	280.0	92.5	83.9	320.0	103.6	97.0 92.0	•	•	105.0 105.5
5	350.0	86.5	79.9	400.0	96.8 96.9	92.0 93.7	•	•	105.3
6 7	420.0 490.0	82.1		480.0 560.0	94.6	91.4	•	•	103.3
8	560.0	74.0		640.0	91.1		•	•	104.6
9	630.0	73.2	Ī :	11 720.0	88.4	:	•		105.2
:	700.0	65.8	<u> </u>	800.0	87.9	1	•	•	102.0
	770.0	0.0	•	880.0	83.3	82.5	•	•	100.4
	840.0	0.0		960.0	78.7	•	•	•	101.5
:	910.0	•	•	1040.0	80.8		:	•	100.9
14	980.0	0.0		1120.0	73.7	73.7	1260.0	96.7	97.3
j 15	1050.0	0.0		1200.0	73.8	74.4	1350.0	96.7	97.3
16	11120.0	0.0	0.0	1280.0	69.9	70.5	1440.0	94.8	95.8
17	1190.0	0.0	0.0	1360.0	69.8	70.4	1530.0	92.3	93.3
18	1260.0	0.0	0.0	1440.0	61.4	62.4	1620.0	90.9	91.9
19	1330.0	0.0	0.0	1520.0	0.0	•	1710.0	•	90.6
•	1400.0	0.0	•	1600.0	0.0		1800.0	88.7	89.9
	1470.0	0.0	•	1680.0	0.0		1890.0	86.7	87.9
•	1540.0	0.0	•	1760.0	0.0		1980.0	82.2	83.4
•	1610.0	0.0	•	1840.0	0.0		2070.0	80.3	81.5
-	1680.0	0.0	•	1920.0	0.0	•	2160.0	79.1	80.3
•	1750.0	:	•	2000.0	0.0		2250.0	71.5	72.8
•	1820.0	0.0	•	2080.0	0.0		12340.0	0.0	0.0
	1890.0	0.0	•	2160.0 2240.0	0.0	•	2430.0 2520.0	0.0	0.0
28	1960.0 2030.0	0.0	•	2320.0	0.0	•	2610.0	•	0.0 0.0
,	2030.0	0.0 0.0	•	2400.0	0.0	•	2700.0	•	0.0
•	2100.0	0.0	•	2480.0	0.0		2790.0	0.0	0.0
•	2240.0	•	•	2560.0	•		2880.0	•	•
	2310.0		•	2640.0	•		2970.0		: :
-	2380.0			2720.0		•	3060.0	•	: :
-	2450.0	-	•	2800.0	0.0		3150.0		: :
•	2520.0	•		2880.0	0.0	•	3240.0	•	
•	2590.0	•		•	0.0	: :	3330.0	:	i 0.0 i
7	1 2660.0	:		: :	0.0	0.0	3420.0	0.0	0.0
39	2730.0	0.0	0.0	3120.0	•		3510.0	•	•
	2800.0 +						3600.0 +		
+		+	+	++	+	++	+	+	++
 +	OASPL	103.7 +	88.8 ++		111.4 +	101.9 ++	 +	118.3 +	114.7 ++

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 23.7 DEG)

	•	+ 			DATA-	POINT /	RUN			
+	- 4-	GN	-4 / :	148	GN	-5 /	149	GN	-6 / +	150
HN		F	SPL	SPLA	, , F ++	SPL	SPLA	F +	SPL	SPLA
1	į	60.0	91.7	•	: :	•	-		106.0	83.5
2	ļ	120.0	80.2	64.1	140.0	85.5	69.4	160.0	99.3	85.9
3	ĺ	180.0	68.3	•	210.0	86.3	75.4	240.0	95.6	87.0
4		240.0	62.7	54.1	280.0	79.6	71.0	320.0	90.8	84.2
5	-	300.0	0.0	•	350.0	76.2 56.3	69.6 51.5	400.0 480.0	88.1 74.4	83.3 71.2
6	¦	360.0	0.0	•	420.0	66.2			65.7	62.5
7	!	420.0	0.0	:	490.0	•	:	: :	:	0.0
8	1	480.0	0.0	1	560.0	71.5		640.0 720.0	0.0	0.0
9	!	540.0 600.0	0.0 0.0	0.0 0.0	630.0 700.0	67.7 61.4	59.5	720.0 800.0	0.0 0.0	0.0
10	1	660.0	0.0	0.0	11 770.0	0.0	0.0	880.0	0.0	0.0
12	1	720.0	0.0	0.0	840.0	0.0	0.0	960.0	0.0	0.0
1 13	i	780.0	0.0	0.0	910.0	0.0	•	1040.0	0.0	0.0
14	i	840.0	0.0	0.0	980.0	0.0	:	1120.0	0.0	0.0
1 15	i	900.0	0.0	•	1050.0	0.0	:	1200.0	0.0	0.0
16	i	960.0	0.0	•	1120.0	0.0	• ,	1280.0	0.0	0.0
1 17	i	1020.0	0.0	•	1190.0	0.0	•	1360.0	0.0	0.0
18	•	1080.0	0.0	•	1260.0	0.0		1440.0	0.0	0.0
19	•	1140.0	0.0	•	1330.0	0.0	: :	1520.0	0.0	0.0
20	•	1200.0	0.0	•	1400.0	0.0	•	1600.0	0.0	i 0.0 i
21	•	1260.0	0.0	:	1470.0	0.0	0.0	1680.0	0.0	0.0
22	•	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0
23	İ	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0
24	İ	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0
25	İ	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0
26	1	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0
27	•	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0
28		1680.0	0.0	•	1960.0	0.0	0.0	•	0.0	0.0
29		1740.0	0.0	•	2030.0	0.0		2320.0	0.0	0.0
30		1800.0	0.0	•	2100.0	0.0		2400.0	0.0	0.0
31	•	1860.0	0.0		2170.0	0.0		12480.0	0.0	0.0
		1920.0			12240.0			2560.0		0.0
					2310.0			12640.0		
•		2040.0		•	2380.0			•	-	
•		2100.0			12450.0			12800.0		0.0
•		2160.0		•	112520.0			2880.0	-	0.0
		2220.0			2590.0 2660.0			2960.0		0.0 0.0
					2000.0					
					2730.0					
					2000.0 +					
÷					, , 			+	+	

⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 23.7 DEG)

	DATA-POINT / RUN									
+	GN-	 GN-4 / 148 +			· ·			GN-6 / 150		
į HN	F	SPL	SPLA	F	SPL	SPLA		SPL	SPLA	
1	60.0	94.4	68.2	•	103.0	76.8	•	105.4		
	120.0	91.6	74.9	140.0	99.3	83.2		106.0	92.6	
•	180.0	85.5	74.6	210.0	93.7	82.8	240.0	101.6	93.0	
•	240.0	78.4	69.8	280.0	89.2	80.6	320.0	98.5	91.9	
•	300.0	60.0	•	350.0	82.6		400.0	94.0	89.2	
-	360.0	0.0	•	11 420.0	79.6		480.0	93.5	90.3	
	420.0	0.0	0.0	490.0	74.3	71.1	560.0 640.0	88.7	85.5	
:	480.0	0.0	•	560.0	69.9	•	640.0 720.0	84.2 81.3	82.3 80.5	
•	540.0 600.0	[0.0 0.0	!	630.0 700.0	64.8	:	800.0	76.3	60.5 75.5	
	11 660.0	0.0	•	770.0	0.0	: :	880.0	65.0	64.2	
: .	720.0	0.0		840.0	0.0	:	960.0	0.0	0.0	
	780.0	0.0	0.0	910.0	0.0	•	1040.0	0.0	0.0	
14	840.0	0.0	0.0	980.0	0.0		1120.0	0.0	0.0	
15	900.0	0.0	:	1050.0	0.0		1200.0	0.0	0.0	
16	960.0	0.0	•	1120.0	0.0		1280.0	0.0	0.0	
•	1020.0	0.0	•	1190.0	0.0		1360.0	0 .0	0.0	
•	11080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	0.0	0.0	
•	11140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	0.0	0.0	
20	11200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	0.0	0.0	
21	1260.0	0.0	0.0	1470.0	0.0		1680.0	0.0	0.0	
22	1320.0	0.0	0.0	1540.0	0.0		1760.0	0.0	0.0	
23	1380.0	0.0	0.0	1610.0	0.0	•	1840.0	0.0	0.0	
•	11440.0	0.0	•	1680.0	0.0		1920.0	0.0	0.0	
•	1500.0	0.0	•	1750.0	0.0		2000.0	0.0	0.0	
•	1560.0	0.0	•	1820.0	0.0		2080.0	0.0	0.0	
•	1620.0	0.0		1890.0	0.0	•	2160.0	0.0	0.0	
•	1680.0	0.0	•	1960.0	0.0	•	2240.0	0.0	0.0	
•	11740.0	0.0	•	2030.0	0.0		12320.0	0.0	0.0	
	1800.0	0.0	•	2100.0 2170.0	0.0	:	2400.0 2480.0	0.0 0.0	0.0	
•	1860.0 1920.0	0.0	•	[2240.0	0.0		2560.0	•	0.0 0.0	
	11920.0			2310.0			2640.0			
•	2040.0			2310.0	:	: :	2720.0			
:	2100.0			2450.0	0.0	•	2800.0	•		
•	2160.0			2520.0	0.0	:	2880.0		0.0	
•	2220.0			2590.0	0.0		2960.0	•	0.0	
	2280.0			12660.0	0.0		3040.0		0.0	
•	2340.0			2730.0	•		3120.0	:		
40	2400.0	0.0	0.0	2800.0	0.0		3200.0		0.0	
+++++++++++										
	DASPL					88.2	,		99.1	

⁻ FREQUENCY HZ

⁻ SOUND PRESSURE LEVEL DB RE 2E-5 PA

^{&#}x27;-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 23.7 DEG)

	DATA-POINT / RUN											
+	+	GN	-4 /	148		•	-5 /	149		GN	-6 /	150
HN +	1	F	SPL	SPLA		-	SPL	SPLA	<u> </u>	F	SPL	SPLA
1 1	-	60.0	97.0	•	į		105.2	1	į	1	106.4	83.9
•	ļ	-	94.0	77.9		-	101.5	:	ļ	1	•	92.9
•		•	87.0	76.1	ļ	210.0	96.2	-	ļ	•	103.5	94.9
•	ļ	•	80.6	72.0	ļ	280.0	93.4	•	ļ	•	100.6	94.0
•	1		68.7	62.1	1	1	88.9	•	•	•	•	95.6
	1	•	70.5	65.7	ļ		83.3		١	•	97.4	94.2
:	1	•	67.2	62.4	ļ	•	75.9	•	ļ	•	91.5	88.3
	ļ	:		0.0	ļ	•	74.1	7	!	:	92.0	90.1
•	ļ	:	0.0	0.0	1	630.0	73.7	•	ļ	•	87.2	86.5
•	ļ		0.0	0.0	!	700.0	63.5	:	ļ	•	86.1	85.3
11		660.0	0.0	0.0	1	770.0	0.0	0.0	ļ	880.0	80.5	79.7
12	!	720.0	0.0	0.0	!	840.0	0.0	0.0	1	960.0	77.9	77.9
*	Ì	•	0.0	0.0	ļ	910.0	0.0		•	1040.0	74.9	74.9
•	ļ	•	0.0	0.0	11	*	0.0	:	•	1120.0	69.9	69.9
•		•	0.0	0.0	•	1050.0	0.0	•	•	1200.0	0.0	0.0
•	ļ	•	0.0	_		1120.0	0.0	1	•	1280.0	0.0	0.0
	•	1020.0	0.0	•	•	1190.0	0.0	•	•	1360.0	0.0	0.0
•	•	1080.0	0.0	-		1260.0	0.0	•	•	1440.0	0.0	0.0
•	•	1140.0	0.0			1330.0	0.0	•	•	1520.0	0.0	0.0
•	•	1200.0	0.0	1		1400.0	0.0	•	•	1600.0	0.0	0.0
•	•	1260.0	0.0	:		1470.0	0.0		-	1680.0	0.0	0.0
•	•	1320.0	0.0	0.0		1540.0	0.0	•	•	1760.0	0.0	0.0
•	-	1380.0	0.0	0.0		1610.0	0.0	_	7	1840.0	0.0	0.0
•	•	1440.0	0.0	0.0		1680.0	0.0	•	•	1920.0	0.0	0.0
•	•	1500.0	0.0	0.0		1750.0	0.0			2000.0	0.0	0.0
•	•	1560.0	0.0	0.0	• •	1820.0	0.0	-	•	2080.0	0.0	0.0
•	•	1620.0	0.0	0.0	• •	1890.0	0.0			2160.0	0.0	0.0
•	•	1680.0	0.0			1960.0	0.0	•		2240.0	0.0	0.0
•	•	1740.0	0.0	•	•	2030.0	0.0	•		2320.0	0.0	0.0
•	•	1800.0	0.0			2100.0	0.0			2400.0	0.0	
•	•	1860.0	0.0			2170.0	0.0			2480.0	0.0	•
		1920.0	0.0			2240.0	0.0			2560.0		•
:		1980.0	0.0		: :	2310.0	0.0			2640.0		
•		2040.0	0.0			2380.0	0.0			2720.0	0.0	
•		2100.0	0.0		- 1	2450.0	0.0			2800.0	0.0	0.0
•	٠,	2160.0	0.0			2520.0	0.0			2880.0	0.0	
•	٠,	2220.0	0.0			2590.0	0.0			2960.0		•
•		2280.0	0.0			2660.0				3040.0	•	
,	٠,	2340.0				2730.0				3120.0		•
		2400.0 				2800.0				3200.0		
			99.1									•
							107.4	71.3	ا د.ا		111.5	102.2
					T †	+			- +			+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

secons recovered possesses recovered possesses recovered

MICROPHONE: MP 4 (PITCH ANGLE: 23.7 DEG)

+	 GN	-4 /							
HN	 			GN	-5 /	149	GN	-6 /	150
		SPL	•	• •	SPL	SPLA	F	SPL	SPLA
	60.0	99.3	•	, ,	106.6	80.4		109.1	86.6
2	: :	95.7	•		102.5	: :	•	105.9	92.5
	180.0	88.3		210.0	96.9	86.0	240.0	105.6	97.0
4	240.0	82.2	73.6	280.0	96.4	87.8	320.0	103.5	96.9
5	300.0	77.6	71.0	350.0	88.6	82.0	400.0	100.8	96.0
	360.0	64.5	59.7	420.0	81.7	76.9	480.0	98.2	95.0
: :	420.0	0.0	0.0	490.0	80.9	77.7	560.0	97.3	94.1
	480.0	0.0		560.0	.77.3	74.1	640.0	93.7	91.8
: '	540.0	0.0	•	630.0	70.6	•	720.0	90.1	89.3
	600.0	0.0		700.0	67.9	•	800.0	87.1	86.3
•	660.0	0.0		770.0	68.1	• •	880.0	86.6	85.8
: :	720.0	0.0	•	840.0	59.2		960.0	78.2	78.2
•	780.0	0.0		910.0	0.0	•	1040.0	80.2	80.2
: :	840.0	0.0		980.0	0.0		1120.0	76.8	76.8
	900.0	0.0		1050.0	0.0		1200.0	74.4	75.0
16	960.0	0.0		1120.0	0.0	:	1280.0	67.4	68.0
17	1020.0	0.0		1190.0	0.0		1360.0	0.0	0.0
18	1080.0	0.0		1260.0	0.0		11440.0	0.0	0.0
	1140.0	0.0		1330.0	0.0	•	1520.0	0.0	0.0
	1200 0	0.0		1400.0	0.0		11600.0	0.0	0.0
	11260.0	0.0		1470.0	0.0		11760.0	0.0	0.0
•	11320.0	0.0		1540.0	0.0		1760.0 1840.0	0.0	0.0
	1380.0 1440.0	0.0	•	1610.0 1680.0	0.0 0.0		1920.0	0.0	0.0
	•	0.0 0.0		1750.0	0.0		2000.0	:	0.0
•	1500.0 1560.0	0.0 0.0		11820.0	0.0		2080.0	0.0 0.0	0.0
, ,	1620.0	0.0		1820.0	0.0	: :	2160.0	0.0	0.0
	1680.0	0.0		1960.0	0.0		12240.0	0.0	0.0 0.0
	1740.0	0.0		2030.0	0.0		2320.0	0.0	0.0
	1800.0	0.0		2100.0	0.0		2400.0	0.0	0.0
	1860.0	0.0		2170.0	0.0		2480.0	0.0	0.0
	11920.0			2240.0	•		2560.0	•	•
	1980.0			2310.0	•		2640.0		
	2040.0			2380.0			2720.0		:
	2100.0			2450.0	•		2800.0		0.0
	2160.0			2520.0			2880.0	•	0.6
	2220.0			2590.0			2960.0		0.0
• •	2280.0			2660.0			3040.0		0.0
	2340.0			2730.0			•	•	0.0
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0
	.+								
-	ASPL								

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 23.7 DEG)

	٠	+ 			-	DATA-	POINT /	RUN	-			+
+	-+	GN:	-4 /	148		GN	-5 / :	149 +		GN	-6 / +	150
HN		F	SPL	SPLA	 -	F +	SPL	SPLA	 -	F	SPL	SPLA
1 1	İ	•	101.1	74.9	İ	•	107.5	81.3	-	•	1112.1	89.6
2		•	96.2	80.1	ļ	•	103.2	87.1	!	•	107.1	93.7
3		2	86.3	75.4	ļ	210.0	94.9	84.0	!	•	104.4	95.8
4			77.1	68.5	ļ	280.0	95.6	87.0	ļ	•	•	100.8
5	1	•	0.0	0.0	1	•	92.3	85.7	1	•	102.0	97.2 92.8
6		•	0.0	0.0	1	420.0	87.1	82.3	ļ	480.0 560.0	96.0 97.7	92.6
1 8	1	420.0 480.0	0.0	0.0	1	490.0 560.0	78.4 77.4	75.2 74.2	ļ	640.0	96.5	94.5
0	1	540.0	0.0 0.0	0.0 0.0	1	630.0	75.1	73.2	1	720.0	90.8	94.0
10	1	600.0	0.0	0.0	1	700.0	61.0	59.1	ŀ	800.0	87.5	86.7
111	í	660.0	0.0	0.0	1	770.0	0.0	0.0	1	880.0	83.1	82.3
1 12	¦	:	0.0	0.0	!	840.0	0.0	0.0	l	960.0	84.8	84.8
12	i	:	0.0	0.0	l	910.0	0.0	0.0		1040.0	81.0	81.0
1 14	¦	840.0	0.0	0.0	1	980.0	0.0	0.0	1	1120.0	77.9	77.9
15	¦		0.0	0.0	1	1050.0	0.0		ŀ	1200.0	75.2	75.8
16	i	960.0	0.0	0.0	•	1120.0	0.0	•	•	1280.0	75.1	75.7
17	;	1020.0	0.0	•	•	1190.0	0.0	:	•	1360.0	65.5	66.1
18	•	1080.0	0.0	0.0	•	1260.0	0.0	•	•	1440.0	61.3	62.3
19	- 7	1140.0	0.0	0.0	•	1330.0	0.0	0.0	•	1520.0	0.0	0.0
20	•	1200.0	0.0	0.0	•	1400.0	0.0	0.0	•	1600.0	0.0	0.0
21	i	1260.0	0.0	0.0	•	1470.0	0.0	0.0	•	1680.0	0.0	0.0
1 22	i	1320.0	0.0			1540.0	0.0		•	1760.0	0.0	0.0
23	•	1380.0	0.0	0.0	•	1610.0	0.0		•	1840.0	0.0	0.0
24	•	1440.0	0.0	0.0	•	1680.0	0.0		•	1920.0	0.0	0.0 i
25	•	1500.0	0.0			1750.0	0.0			2000.0	0.0	0.0
26	İ	1560.0	0.0			1820.0	0.0		•	2080.0	0.0	0.0
27	ĺ	1620.0	0.0	0.0	H	1890.0	0.0			2160.0	0.0	0.0
28	İ	1680.0	0.0	0.0	Ĥ	1960.0	0.0	0.0	İ	2240.0	0.0	0.0
29	1	1740.0	0.0	0.0	Ü	2030.0	0.0	0.0		2320.0	0.0	0.0
30	ĺ	1800.0	0.0	0.0	H	2100.0	0.0	0.0		2400.0	0.0	0.0
31	1	1860.0	0.0	0.0	1	2170.0	0.0	0.0		2480.0	0.0	0.0
32	1	1920.0	0.0	0.0	П	2240.0	0.0	0.0	Ц	2560.0	0.0	0.0
33	l	1980.0	0.0			2310.0		0.0	П	2640.0	0.0	0.0
34	1	2040.0	0.0	0.0	П	2380.0	0.0			2720.0	0.0	0.0
•	•	2100.0			П	2450.0	0.0	0.0	1	2800.0	0.0	0.0
36	1	2160.0			П	2520.0	0.0	0.0	H	2880.0	0.0	0.0
37	1	2220.0	0.0			2590.0				2960.0		0.0
•		2280.0				2660.0				3040.0		0.0
•		2340.0								3120.0		0.0
		2400.0								3200.0		0.0
•		-										•
I	O.	ASPL	102.5	82.4		i	109.4	93.1			115.2	105.4
+				+	+-1		+		Н	<u></u>	r	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 23.7 DEG)

	+			DATA-	POINT /	RUN			
.	 GN	-4 / :		j GN	-5 / :	149	GN	-6 /	150
HN	F	SPL	SPLA		SPL	SPLA	F	SPL	SPLA
1 1	•	101.3	75.1	70.0	108.1	•	•	114.7	92.2
2		93.9	:	•	102.9	86.8	•	107.2	93.8
: . :	180.0	85.7	•	210.0	96.1	85.2	•	104.6	96.0
1 4 1	240.0	73.8	•	280.0	96.0	87.4	320.0	106.2	99.6
5	300.0	74.2	67.6	350.0	91.1	84.5	400.0	98.8	94.0
6	360.0	64.4	59.6	420.0	79.6	74.8	480.0	94.5	91.3
7	420.0	0.0	0.0	490.0	80.0	76.8	560.0	•	93.2
	480.0	0.0		560.0	70.8	67.6	640.0	92.1	90.2
! !	540.0	0.0		630.0	0.0	0.0	720.0	80.5	79.7
	600.0	0.0		700.0	0.0	0.0	•	87.7	86.9
11	660.0	0.0	!	770.0	0.0	0.0	•	82.9	62.1
12	720.0	0.0	:	840.0	0.0	0.0		72.8	72.8
	780.0	0.0		910.0	0.0		11040.0	0.0	0.0
1 1	840.0	0.0	0.0	980.0	0.0		1120.0	:	0.0
•	900.0	0.0		1050.0 1120.0	0.0 0.0		1200.0 1280.0	0.0 0.0	0.0
	960.0 1020.0	0.0	•	11120.0	0.0		1360.0	0.0	0.0
:		0.0	•	1260.0	0.0		1440.0	0.0	0.0
	1080.0 1140.0	0.0		1330.0	0.0		1520.0	0.0	0.0
•	1200.0	0.0		1400.0	0.0		1600.0	0.0	0.0
	1260.0	0.0		1470.0	0.0		1680.0	0.0	0.0
•	1320.0	0.0		1540.0	0.0		1760.0	0.0	0.0
	1380.0	0.0		1610.0	0.0	•	1840.0	0.0	0.0
	1440.0	0.0	,	1680.0	0.0		1920.0	0.0	0.0
	1500.0	0.0		1750.0	0.0		2000.0	0.0	0.0
	1560.0	0.0	:	1820.0	0.0		2080.0	0.0	0.0
	1620.0	0.0		1890.0	0.0		2160.0	0.0	0.0
	1680.0	0.0		1960.0	0.0		2240.0	0.0	0.0
•	1740.0	0.0	0.0	2030.0	0.0		2320.0	0.0	0.0
	1800.0	0.0	0.0	2100.0	0.0		2400.0	0.0	0.0
	1860.0	0.0	0.0	2170.0	0.0		2480.0	0.0	0.0
	1920.0	•		2240.0			2560.0	•	
	1980.0			2310.0			2640.0		
	2040.0			2380.0		: :	2720.0		•
•	2100.0			2450.0		•	2800.0		0.0
	2160.0			2520.0		•	2880.0	•	0.0
•	2220.0			2590.0	•		2960.0		0.0
•	2280.0			2660.0			3040.0		0.0
	2340.0			2730.0		0.0	3120.0	0.0	0.0
	2400.0			2800.0					
+		·	h+	+	+ -		+	+	⊦ -+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

construction and analysis sections and

MICROPHONE: MP 7 (PITCH ANGLE: 23.7 DEG)

	-	DATA-POINT / RUN									
+	+-	GN-	-4 / :	148 +		GN	-5 / :		GN	-6 /	150
HN	İ	F	SPL	SPLA	 -	F	SPL	SPLA	1	SPL	SPLA
1	I	60.0	94.6	68.4		70.0	107.5		•	113.0	90.5
	l	•		•	l	•	97.9			99.8	86.4
	1			•		•	90.3	: :		98.9	90.3
	ļ			•	ļ	•	82.4	: :	320.0	•	83.9
•	1		59.9	53.3	ļ	350.0	71.9	: :	400.0	81.3	76.5
6	ļ	360.0	0.0	0.0	ļ	420.0	76.7	•	480.0	83.3	80.1
1 7	ļ	420.0	0.0	0.0		490.0	70.8	67.6	560.0	81.2	78.0
8	ļ	480.0	0.0	0.0	ļ	560.0	65.7	62.5	640.0	74.5	72.6
9	ļ	540.0	0.0	0.0	1	630.0	59.8		720.0	0.0	0.0
10	ļ.		0.0	:	ļ	•	0.0	0.0	•	0.0	0.0
11	ļ.	660.0	0.0	•			0.0	:	:	0.0	0.0
•	ļ	720.0	0.0	•	1		0.0		•	•	0.0
•	ļ		0.0	•	ļ		0.0		11120.0	•	0.0
:			0.0	•	1		0.0	:	1120.0	•	0.0 0.0
•	1		0.0		•	1050.0	0.0		1200.0	•	
•			0.0		•	1120.0	0.0 0.0	•	1280.0	•	0.0
•	•	1020.0	0.0	•		1190.0	'	,	1360.0 1440.0	0.0 0.0	0.0
•	•	1080.0	0.0	:		1260.0	0.0 0.0		1520.0	0.0	0.0
		1140.0	0.0	•	•	1330.0 1400.0	0.0	•	11600.0	0.0	0.0
•	- 7	1200.0 1260.0	0.0	I		1470.0	0.0	•	1680.0	•	0.0
•	•	1320.0	0.0		•	1540.0	0.0		1760.0	•	0.0
•		1380.0	0.0	:		1610.0	0.0		1840.0	0.0	0.0
•	•	1440.0	0.0	•	•	1680.0	0.0		1920.0	•	0.0
•		1500.0	0.0	:	-	1750.0	0.0	: :	2000.0	•	0.0
•	•	1560.0	0.0	•	•	1820.0	0.0	:	2080.0	•	0.0
•	•	1620.0	0.0		•	1890.0	0.0	:	2160.0	•	0.0
•	•	1680.0	0.0	•	•	1960.0	0.0		2240.0	0.0	0.0
•	•	1740.0	0.0			2030.0	0.0		2320.0	0.0	0.0
•		1800.0	0.0			2100.0	0.0		2400.0	0.0	0.0
		1860.0	0.0			2170.0	0.0		2480.0	0.0	0.0
•		1920.0		•		2240.0			2560.0	•	
		1980.0				2310.0			2640.0		:
		2040.0			,	2380.0			2720.0	•	•
•		2100.0				2450.0			2800.0	•	0.0
•		2160.0				2520.0			2880.0	0.0	0.0
•		2220.0				2590.0			2960.0	•	0.0
-		2280.0				2660.0		0.0	3040.0	0.0	0.0
•		2340.0		0.0					3120.0		0.0
		2400.0							3200.0		
+++											
•									+ 		-
									; +		

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

(PITCH ANGLE: 23.7 DEG) MICROPHONE: MP 8

	-	+ 			-	DATA-	POINT /	RUN			
		 GN	-4 /	148	ı				GN	-6 /	150
HN	+	+ F	SPL	+ SPLA	+	+ F	SPL	+ SPLA		SPL	SPLA
1	-+-	60.0	101.3	75.1	1	70.0	105.7	79.5	80.0	108.5	86.0
2	i		93.3	:	İ	•	103.5	87.4	160.0	106.8	93.4
j 3	İ	180.0	85.7	74.8	İ	:	98.0	87.1	•	105.7	97.1
j 4	i		81.0	72.4	j	280.0	93.5	84.9	320.0	102.0	95.4
j 5	İ	300.0	72.5	65.9	İ	350.0	88.1	<u>-</u> :	- 7	100.7	95.9
j 6	İ	360.0	0.0	0.0	İ	420.0	86.8	82.0	480.0	98.3	95.1
1 7	Ì	420.0	0.0	0.0	Ì	490.0	82.1	78.9	560.0	95.4	92.2
j 8	İ	480.0	0.0	0.0	İ	560.0	76.3	73.1	640.0	90.1	88.2
j 9	İ	540.0	0.0	0.0	İ	630.0	72.9	71.0	720.0	89.5	88.7
10	ĺ	600.0	0.0	0.0	İ	700.0	72.2	70.3	800.0	88.2	87.4
11	İ	660.0	0.0	0.0	Ĺ	770.0	67.9	67.1	880.0	83.6	82.8
12	1	720.0	0.0	0.0	Ĺ	840.0	0.0	0.0	960.0	83.1	83.1
1 13	1	780.0	0.0	0.0	ĺ	910.0	0.0	0.0	1040.0	78.7	78.7
14		840.0	0.0	0.0	1	980.0	0.0	0.0	1120.0	75.1	75.1
15		900.0	0.0	0.0	1.	1050.0	0.0	0.0	1200.0	0.0	0.0
1 16		960.0	0.0	0.0		1120.0	0.0	0.0	1280.0	0.0	0.0
17		1020.0	0.0	0.0		1190.0	0.0	0.0	1360.0	0.0	0.0
18	1.	1080.0	0.0	0.0		1260.0	0.0	0.0	1440.0	0.0	0.0
19		1140.0	0.0	0.0		1330.0	0.0	0.0	1520.0	0.0	0.0
20	-11	1200.0	0.0	0.0	1	1400.0	0.0	0.0	11600.0	0.0	0.0
21		1260.0	0.0	•	•	1470.0	0.0	0.0	1680.0	0.0	0.0
22		1320.0	0.0	•		1540.0	0.0		1760.0	0.0	0.0
23		1380.0	0.0	0.0	1	1610.0	0.0	0.0	1840.0	0.0	0.0
24		1440.0	0.0	0.0		1680.0	0.0		1920.0	0.0	0.0
25		1500.0	0.0			1750.0	0.0		2000.0	0.0	0.0
26	П	1560.0	0.0			1820.0	0.0		2080.0	0.0	0.0
27		1620.0	0.0			1890.0	0.0	. ,	2160.0	0.0	0.0
28		1680.0	0.0			1960.0	0.0		2240.0	0.0	0.0
29		1740.0	0.0			2030.0	0.0		2320.0	0.0	0.0
30		1800.0	0.0	0.0		2100.0	0.0		2400.0	0.0	0.0
31	ij	1860.0	0.0			2170.0	0.0		2480.0	0.0	0.0
		1920.0				2240.0			2560.0		
•		1980.0	:			2310.0			2640.0		0.0
•		2040.0				2380.0			2720.0	:	0.0
•	- 1	2100.0				2450.0		•	2800.0	•	0.0
•		2160.0	•	•		2520.0			2880.0	•	:
		2220.0				2590.0			2960.0	7	•
-		2280.0	:			2660.0			3040.0	Ĭ	
•		2340.0	•			2730.0			3120.0	7	!
		2400.0							3200.0 +		, ,
+									+		
i	O.A		102.1					92.8			103.5
						·		+	! +		

⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 23.7 DEG)

	•	+ 			-	DATA-	POINT /	RUN	-			
+	-+-	 GN +	-4 /	148 +	1	GN	-5 /	149		GN	-6 / +	150
HN	-+-	F	SPL	SPLA		F	SPL	SPLA	 -	F	SPL	SPLA
1 1			103.6	77.4	į		103.7	77.5	1	•	107.5	85.0
2		120.0	92.7	76.6	ļ	140.0	99.8	83.7	ļ	160.0	104.3	90.9
3		•	87.1	76.2	ļ	210.0	92.5	81.6	•	240.0	101.6	93.0
4			73.2	64.6	ŀ	280.0	94.8		l	,	104.4	97.8
5	•			0.0	ļ	350.0	89.5	82.9		400.0	97.2	92.4
6	:	7	0.0	0.0	ļ	420.0	77.7	72.9		480.0	97.0	93.8
7	•	•	0.0	0.0		490.0	79.7	76.5		560.0	95.3	92.1
8	•	480.0	0.0	0.0	!	560.0	74.2	71.0		640.0	92.6	90.7
9		540.0	0.0	0.0	į	630.0	72.8	70.9		720.0	89.8	89.0
10		600.0	0.0	0.0	1	700.0	66.6	64.7		800.0	87.8	87.0
1 12		660.0 720.0	0.0 0.0	0.0 0.0	[770.0 840.0	0.0	0.0 0.0		880.0	84.3	83.5
12		780.0	0.0	0.0	ŀ	910.0	0.0 0.0	0.0		960.0	78.8	78.8 83.1
14		840.0	0.0	0.0	l I	980.0	0.0	l 0.0	•	1040.0 1120.0	83.1 73.8	63.1 73.8
15	•	900.0	0.0	0.0	l L	1050.0	0.0	•		1120.0	0.0	/3.6 0.0
16	•	960.0	0.0			1120.0	0.0			1280.0	0.0	0.0
17	•	1020.0	0.0			1120.0	0.0			1360.0	0.0	0.0
18	•	1080.0	0.0			1260.0	0.0			1440.0	0.0	0.0
1 19		1140.0	0.0	•	•	1330.0	0.0	•		1520.0	0.0	0.0
20		1200.0	0.0	0.0	: :	1400.0	0.0			1600.0	0.0	0.0
21		1260.0	0.0	0.0	•	1470.0	0.0			1680.0	0.0	0.0
22		1320.0	0.0	0.0		1540.0	0.0	0.0		1760.0	0.0	0.0
23		1380.0	0.0	0.0		1610.0	0.0			1840.0	0.0	0.0
24	•	1440.0	0.0	0.0		1680.0	0.0			1920.0	0.0	0.0
25		1500.0	0.0	0.0		1750.0	0.0		Ì	:	0.0	0.0
26	•	1560.0	0.0	•		1820.0	0.0		i		0.0	0.0
j 27		1620.0	0.0			1890.0	0.0	•		2160.0	0.0	0.0
28		1680.0	0.0	•		1960.0	0.0			2240.0	0.0	0.0
29		1740.0	0.0			2030.0	0.0	•	•	2320.0	0.0	0.0
30	Ì	1800.0	0.0	0.0	i	2100.0	0.0	0.0	i	2400.0	0.0	0.0
31		1860.0	0.0	0.0	İ	2170.0	0.0	0.0	i	2480.0	0.0	0.0
32		1920.0	0.0	0.0	İ	2240.0	0.0	0.0	į		0.0	0.0
33		1980.0	0.0	0.0		2310.0	0.0	0.0	i	2640.0	0.0	0.0
34		2040.0	0.0			2380.0	0.0			2720.0	0.0	0.0
35		2100.0	0.0	0.0		2450.0	0.0			2800.0	0.0	0.0
36		2160.0	0.0	0.0		2520.0	0.0	0.0	1	2880.0	0.0	0.0
37		2220.0	0.0	0.0		2590.0	0.0	0.0	1	2960.0	0.0	0.0
38		2280.0	0.0	0.0		2660.0	0.0	•		3040.0		0.0
39		2340.0	0.0			2730.0		0.0	1	3120.0	0.0	0.0
40	, ,	2400.0				2800.0			-	3200.0		0.0
										+		
+										+		
1		ASPL										102.6
+			++		+ +	+	+	+	+	+		+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

contracted property bysologic appropriate property bysological

MICROPHONE: MP 1 (PITCH ANGLE: 19.9 DEG)

		+								+
		Í			DATA-	POINT /	RUN			I
		}								١
.		LN:	-1 /	154	I LN	-2 / :	155	[LN	-3 / +	156 +
	HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
İ	1	70.0	98.6	72.4	80.0	103.9	81.4	90.0	1110.1	91.0
İ	2		90.4	:	160.0	102.1	88.7	180.0	105.7	94.8
İ	3	210.0	87.3	76.4	240.0	97.4	88.8	270.0	106.8	98.2
İ	4	280.0	79.7	71.1	320.0	93.8	87.2	360.0	102.6	97.8
	5	350.0	72.7	66.1	400.0	92.4	87.6	450.0	99.6	96.4
1	6	420.0	59.1	54.3	480.0	80.0	76.8	540.0	93.0	89.8
1	7	490.0	0.0	0.0	560.0	77.6	74.4	630.0	96.0	94.1
1	8	560.0	0.0	0.0	640.0	76.6	74.7	720.0	94.9	94.1
1	9	630.0	0.0	0.0	720.0	70.0	69.2	810.0	88.4	87.6
	10	700.0	0.0	0.0	800.0	71.7	70.9	900.0	88.1	88.1
•	11	770.0	0.0	0.0	880.0	65.9	65.1	990.0	81.0	81.0
•	12	840.0	0.0	0.0	960.0	57.7	57.7	1080.0	79.4	79.4
•	13	910.0	0.0	•	1040.0	54.0	•	1170.0	68.0	68.6
	14		0.0	•	1120.0	0.0		1260.0	0.0	0.0
•	•	1050.0	0.0		1200.0	0.0		1350.0	0.0	0.0
•		1120.0	0.0		1280.0	0.0		1440.0	0.0	0.0
	•	1190.0	0.0		1360.0	0.0		1530.0	0.0	0.0
		1260.0	0.0		1440.0	0.0		1620.0	0.0	0.0
•		1330.0	0.0		1520.0	0.0	•	1710.0	0.0	0.0
·		1400.0	0.0		1600.0	0.0		1800.0	0.0	0.0
		1470.0	0.0		11680.0	0.0	: :	1890.0	0.0	0.0
- 1		1540.0	0.0	:	11760.0	0.0	:	1980.0	0.0	0.0
:		1610.0	0.0	0.0	1840.0	0.0		[2070.0	0.0	0.0
•		1680.0 1750.0	0.0	0.0 0.0	1920.0	0.0		2160.0 2250.0	0.0 0.0	0.0
•		1750.0 1820.0	0.0	0.0	2000.0 2080.0	0.0	:	2340.0	0.0	0.0 0.0
:	•	1890.0	0.0	0.0	2160.0	0.0		2430.0	0.0	0.0
- 1		1960.0	0.0	, ,	2240.0	0.0	,	2520.0	0.0	0.0
•	29		0.0	0.0	2320.0	0.0	,	2610.0	0.0	0.0
		2100.0	0.0	0.0	2400.0	0.0		2700.0	0.0	0.0
•		2170.0	0.0	, ,	2480.0	0.0		2790.0	0.0	0.0
i .		2240.0			2560.0	0.0		2880.0	•	
		2310.0	0.0		2640.0	0.0		2970.0		0.0
	, ,	2380.0			2720.0	0.0		3060.0		0.0
:		2450.0			2800.0	0.0		3150.0	0.0	0.0
:		2520.0			2880.0	0.0	: :	3240.0	:	0.0
1:		2590.0		:	2960.0	0.0		3330.0		0.0
1 3	38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	0.0	0.0
1:	39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	0.0	0.0
		2800.0			3200.0			•	•	
+	+				+					
+					+					
	0.6	ASPL	99.6	80.2	1	107.0	94.5	ļ	113.5	104.6
+				+	+		r -	+	+	++

FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

^{*}LA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 19.9 DEG)

	4				-	DATA-	POINT /	RUN	•			 !
+	. 4-	LN	-1 / 1	154	1	LN:	-2 /	155		LN	-3 /	156
HN	į	F	SPL	SPLA	į	F	SPL	SPLA		F	SPL	SPLA
1	į	•	103.4	77.2	į	•	105.4	82.9		•	111.6	92.5
2	ļ	140.0	99.3	83.2	ļ	160.0	106.7	93.3		•	•	106.8
3	1	210.0	95.3	84.4	ļ	240.0	102.8	94.2		•	106.5	97.9
1 4	ļ	280.0	90.3	81.7	ļ	320.0	98.3	91.7		•	•	105.4
5	!	350.0	86.3	79.7	ļ	400.0	95.8	91.0		•	•	105.9
6	1	•	81.8	77.0	ļ	480.0	96.8	93.6		•	•	105.1
1 7	1	490.0	77.7	74.5	1	560.0	92.5	89.3		•	•	104.2
8	1	560.0	69.9	66.7	ļ	640.0	88.5	86.6		•	•	100.4
9	ļ	630.0	64.9	63.0	ļ	1	81.3	80.5		•	•	101.7
10	1		60.7	58.8	-	800.0	82.2	•		•	•	101.8
11	1	•	0.0		ļ	•	80.2	79.4		990.0	97.7	97.7
12	ļ	•	0.0		!	960.0 1040.0	74.0 69.1	•		1080.0 1170.0	95.1	95.1 96.6
13	-		0.0 0.0		•	•	66.3	66.3	•	1260.0	96.0	90.6 93.6
14	ŀ	980.0	0.0	0.0 0.0	•	1120.0 1200.0	63.7	64.3	•	1350.0	93.0 92.6	93.0
1 16	•	1050.0	0.0		•	1280.0	61.8	1 62.4		1440.0	87.6	88.6
1 17		1120.0 1190.0	0.0		•	1360.0	53.8	•	•	1530.0	84.9	85.0 85.9
1 18	•	1260.0	0.0		•	1440.0	0.0			1620.0	84.6	85.6
1 19	•	1330.0	0.0		•	1520.0	0.0	•		1710.0	81.0	82.0
•	•	1400.0	0.0		•	1600.0	0.0			1800.0	79.7	80.9
21	•	1470.0	0.0		•	1680.0	0.0			1890.0	73.8	75.0
22	•	1540.0	0.0		•	1760.0	0.0	•		1980.0	0.0	0.0
23	•	1610.0	0.0		•	1840.0	0.0	•		2070.0	0.0	0.0
24	•	1680.0	0.0		•	1920.0	0.0			2160.0	0.0	0.0
25	•	1750.0	0.0		•	2000.0	0.0	<u> </u>		2250.0	0.0	0.0
26	•	1820.0	0.0		-	2080.0	0.0	•		2340.0	0.0	0.0
27	•	1890.0	0.0		•	2160.0	0.0	•		2430.0	0.0	0.0
28		1960.0	0.0		•	2240.0	0.0	•		2520.0	0.0	0.0
29		2030.0	0.0		•	2320.0	0.0			2610.0	0.0	0.0
30	•	2100.0	0.0			2400.0	0.0			2700.0	0.0	0.0
31		2170.0	0.0		•	2480.0	0.0	•		2790.0	0.0	0.0
•	•	2240.0	•		•	2560.0	•	,		2880.0	•	0.0
						2640.0				2970.0		
		2380.0				2720.0		0.0	١Ì	3060.0	*	:
•	•	2450.0	•		1	2800.0	0.0	0.0	H	3150.C	0.0	
36	1	2520.0	0.0	0.0	}	2880.0	0.0	0.0		3240.0	0.0	0.0
j 37		2590.0	0.0 [0.0		2960.0	0.0	0.0	H	3330.0	0.0	0.0
		2660.0				3040.0				3420.0		0.0
						3120.0						
40		2800.0	0.0	0.0	1	3200.0	0.0	0.0	1	3600.0	0.0	0.0
						+ +						
Ì	O.	ASPL	105.5	89.3	1	l	110.8	100.7	H	1	120.5	114.0

F - FREQUENCY HZ

SARAN RESERVA MOSSESS MOSSISSE SIGNALAN ANALOGIST MOSSISSES ACCIDED TO CONTRACT MOSSISSES ANALOGIST ANALOGIST

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 19.9 DEG)

	+			. - ·	DATA-	POINT /	RUN			 !
+	 LN	-1 /	154		LN-	-2 / :		LN	-3 /	 156 ++
HN	F	SPL	SPLA	, -	F	SPL	: :	:	SPL	SPLA
•	: :	104.3	78.1	į	80.0	108.2	85.7	•	111.7	92.6
2	140.0	100.9	84.8	ļ	160.0	107.3	93.9	•	•	1100.4
3	210.0	95.9	85.0	1	240.0	105.1	96.5	•	1110.6	102.0
4	280.0	92.2	83.6	1	320.0	101.5	94.9	•	1	106.6 108.1
5	350.0 420.0	88.4	81.8	1	400.0 480.0	101.5 98.9	96.7 95.7	•	•	104.5
1 7	1 420.0	77.3	74.1	ŀ	560.0	93.0	89.8	•	•	107.0
8	1 560.0	70.6	67.4		640.0	93.7	91.8	•	•	107.4
	630.0	0.0	0.0	1	720.0	91.0	90.2	•	•	105.9
	700.0	0.0	0.0	ï	800.0	87.7		•	•	105.6
:	770.0	0.0	0.0	i	880.0	83.4	82.6	•	•	104.3
:	840.0	0.0		i	960.0	81.7		•	Ī.	102.2
	910.0	j 0.0		i	1040.0	78.9		1170.0	98.3	98.9
14	980.0	0.0	0.0	•	1120.0	73.5	73.5	1260.0	•	100.8
15	1050.0	0.0	0.0	İ	1200.0	69.7	70.3	1350.0	97.4	98.0
16	11120.0	0.0	0.0	ĺ	1280.0	69.9	70.5	1440.0	95.5	96.5
17	1190.0	0.0	0.0	1	1360.0	65.1	65.7	1530.0	92.8	93.8
18	1260.0	0.0	0.0	İ	1440.0	60.4	61.4	1620.0	94.2	95.2
•	1330.0	0.0	0.0	•	1520.0	56.9	•	1710.0	91.3	92.3
•	1400.0	0.0	0.0	•	1600.0	58.2	• .	1800.0	85.7	86.9
•	[[1470.0	0.0	0.0		1680.0	57.4	•	1890.0	86.9	88.1
•	1540.0	0.0	0.0	•	1760.0	53.2		1980.0	85.8	87.0
•	1610.0	0.0	0.0	•	1840.0	0.0	•	2070.0	82.8	84.0
•	1680.0	0.0	0.0	•	1920.0	0.0	:	2160.0	79.8	81.0
•	1750.0	0.0	0.0	•	2000.0	0.0		2250.0	81.4	82.7
•	1820.0	0.0	0.0	•	2080.0	0.0	: :	2340.0	76.5	77.8
•	1890.0	0.0	0.0	•	2160.0	0.0		2430.0	73.8 74.5	75.1 75.8
•	1960.0	0.0	0.0	•	2240.0 2320.0	0.0		2520.0 2610.0	73.1	73.6 74.4
•	2030.0 2100.0	0.0	0.0	•	2400.0	0.0	0.0 0.0	2700.0	69.3	70.6
	2170.0	0.0	0.0	•	2480.0	0.0	• •	2790.0	0.0	0.0
•	2240.0	•		•	2560.0			2880.0	•	
	2310.0				2640.0			2970.0		
	2380.0	•	-	- :	2720.0		: :	3060.0	-	: :
•	2450.0				2800.0			1:150.0	•	
•	2520.0	-			2880.0			3240.0	•	0.0
•	2590.0	:		•	2960.0	0.0		3330.0		0.0
•	2660.0				3040.0	0.0		3420.0		0.0
•	2730.0	0.0			3120.0			3310.0	•	0.0
	2800.0				3200.0			3600.0		0.0
	++									
•		•							•	
	DASPL									
+		+		+			r+	T	+	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

TOTAL PROSPER PROPERTY SESSESSES SOCIONALES CONCESSES

MICROPHONE: MP 4 (PITCH ANGLE: 19.9 DEG)

		+	DATA-POINT / RUN										
+		 -	LN-	-1 / :	154 +	1	LN	-2 /	155		LN	-3 /	156 +
	HN		F	SPL	SPLA	 -	F	SPL	SPLA	ļ	F	SPL	SPLA
į	1	ij		105.6	•	ļ		111.8	89.3		•	112.1	93.0
ļ	2	!!		102.1	86.0	ļ	•	107.0	93.6	ļ	•	110.8	99.9
ļ	3	!!	210.0	95.9	85.0	ļ	•	106.7	98.1	ļ	•	•	104.5
ļ	4	!!	280.0	94.1	85.5	1	•	104.0	97.4	ļ	•	•	107.1
ļ	5	!!	350.0	87.8	81.2	1	400.0	101.2	96.4	ļ	•	•	1107.6
1	6	!!	420.0	85.0	80.2	1	480.0	99.6	•	ļ	•	•	106.9
١			490.0	81.6	78.4	!	560.0	98.0		ļ	:	•	108.6
!	8	!!	560.0	77.2	74.0	ļ	640.0	96.1		ļ	•	•	107.3
!		!!	630.0	•	72.2		720.0	91.0	,	ļ	•	•	106.4
ļ			700.0	68.9	67.0		800.0	89.7	88.9	ļ	•	•	1107.2
ļ	11		770.0	64.8	64.0		880.0	87.5	86.7	ļ	•	105.0	105.0
ļ	12		840.0	55.5	54.7		960.0	82.1	82.1	ļ	•	104.2	104.2
- [13		910.0	0.0	0.0	•	1040.0	81.4	81.4	ŀ	•	103.6	1104.2
1	14	! !	980.0	0.0	0.0		1120.0	79.0	79.0	j	1260.0	•	1100.4
ŀ			1050.0	0.0	0.0		1200.0	75.3	75.9	!	•	•	101.2
ŀ			1120.0	0.0	0.0	•	1280.0	70.0	70.6	 -	,		100.0 96.2
!			1190.0 1260.0	0.0	0.0		1360.0	71.0 66.0	•	•	1530.0 1620.0	:	96.2
!				0.0	0.0	•	1440.0	,	•	•	1710.0	94.6	93.6
ļ			1330.0	0.0	0.0		1520.0	61.4			1800.0	93.3) 94.3 93.0
- -			1400.0 1470.0	0.0	0.0		1600.0	59.8 58.1	•	•	1890.0	88.8	90.0
!			1540.0	0.0 0.0	0.0 0.0	•	1680.0 1760.0	56.5	•	•	1980.0	87.3	88.5
1			1610.0	0.0	0.0	- 1	1840.0	0.0	0.0	!	2070.0	85.7	86.9
1			1680.0	0.0	0.0	•	1920.0	0.0	0.0	1	2160.0	83.5	84.7
i			1750.0	0.0	0.0		2000.0	0.0	0.0	/ . 	2250.0	82.3	83.6
1	26		1820.0	0.0	0.0		2080.0	0.0	•	 -	•	80.7	82.0
ł			1890.0	0.0	0.0		2160.0	0.0				80.0	81.3
i			1960.0	0.0	0.0	•	2240.0	0.0	•		2520.0	77.1	78.4
¦			2030.0	0.0	0.0	;		0.0	•	•	2610.0	77.7	79.0
		•	2100.0	0.0	0.0		2400.0	0.0	•	•	2700.0	75.3	76.6
i			2170.0	0.0	•		2480.0	0.0	•	•	2790.0	74.0	75.3
1			2240.0	0.0	•		2560.0	0.0	•	•	2880.0	73.3	74.5
i			2310.0	_			2640.0				2970.0		1 :
i			2380.0		:	- 1	2720.0		•		3060.0	•	69.5
1			2450.0			- : :	2800.0	0.0	:	: :	3150.0		0.0
1			2520.0			- 1	2880.0	0.0	:	: :	3240.0		0.0
ï			2590.0		•	- 1	2960.0	0.0	•	•	3330.0	:	0.0
i			2660.0			- : :	3040.0		•	•	3420.0	•	: :
į			2730.0		-		3120.0		•		3510.0	•	0.0
ì			2800.0		•		3200.0		•		3600.0		:
+													
+		- -			+	+			+	+-1	+- <i>-</i>	+- -	++
l	()AS	SPL	107.8	91.8				105.1				117.4
+					+	++		+	+	Н		+	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 19.9 DEG)

	+	DATA-POINT / RUN										
+	 LN	-1 /	154 		LN-	-2 /	-	LN	-3 /	156		
HN	F	SPL	SPLA	 -	F	SPL	SPLA	•	SPL	SPLA		
1	70.0	106.1	79.9	İ	80.0	114.3	91.8	•	113.0	93.9		
2	140.0	103.0	86.9	-	160.0	108.1	94.7	180.0	•	101.7		
3	210.0	93.8	82.9	1	240.0	105.3	96.7	270.0	1113.0	104.4		
1 4	280.0	93.0	84.4	!	320.0	107.9	101.3	360.0	115.5	110.7		
5	350.0	92.2	85.6	ļ	400.0	103.0	98.2	•	107.0	103.8		
6	420.0	86.3	81.5	į	480.0	96.3	93.1	•	•	107.2		
7	490.0	78.8	75.6	į	560.0	97.8	94.6	•	•	108.9		
8	1 560.0	76.4	73.2		640.0	96.6	94.7	•	•	105.6		
•	630.0	71.8	69.9	1	720.0	92.1	91.3	•	•	105.9		
•	700.0	67.9	66.0	1	800.0 880.0	88.2 85.7		•	•	104.4		
	770.0 840.0	66.1 54.8	54.0	1	960.0	83.7 84.3	84.9 84.3	•	•	105.3 102.8		
	840.0 910.0	0.0	0.0	1	1040.0	81.9	•	•	•	102.3		
14	910.0	0.0	0.0	•	1120.0	76.1		•	•	102.2		
•	1050.0	0.0	0.0		1200.0	73.8	: :	1350.0	98.2	98.8		
16	1120.0	0.0	0.0		1280.0	73.7		1440.0	97.1	98.1		
1 17	11120.0	0.0	0.0		1360.0	67.0	•	1530.0	95.7	96.7		
18	1260.0	0.0	0.0		1440.0	66.2		1620.0	93.0	94.0		
•	1330.0	0.0	0.0	•	1520.0	62.6	: :	1710.0	91.3	92.3		
•	1400.0	0.0	0.0	•	1600.0	60.4		1800.0	91.6	92.8		
•	1470.0	0.0	0.0		1680.0	0.0		1890.0	87.6	88.8		
•	1540.0	0.0		•	1760.0	0.0	•	1980.0	87.6	88.8		
•	1610.0	0.0			1840.0	0.0	:	2070.0	87.0	88.2		
•	11680.0	0.0		- 1	1920.0	0.0		2160.0	84.2	85.4		
•	1750.0	0.0	0.0		2000.0	0.0	:	2250.0	82.0	83.3		
26	1820.0	0.0	0.0	ĺ	2080.0	0.0	0.0	2340.0	81.3	82.6		
27	1890.0	0.0	0.0	ĺ	2160.0	0.0	0.0	2430.0	77.6	78.9		
28	1960.0	0.0	0.0	1	2240.0	0.0	0.0	2520.0	78.8	80.1		
29	2030.0	0.0	0.0	-	2320.0	0.0	0.0	2610.0	71.1	72.4		
•	2100.0	0.0	0.0		2400.0	0.0	0.0	2700.0	0.0	0.0		
•	2170.0	0.0	0.0		2480.0	0.0		2790.0	0.0	0.0		
:	2240.0				2560.0			2880.0				
•	2310.0				2640.0			2970.0				
•	2380.0	•			2720.0		•	3060.0	•	: :		
•	2450.0	•		- :	2800.0			3150.0	-	0.0		
	2520.0				2880.0			3240.0		0.0		
	2590.0				2960.0			3330.0		0.0		
	2660.0							3420.0		0.0		
	2730.0							3510.0		0.0		
	2800.0 							3600.0 +		0.0 +		
•	DASPL							· ·	-			
 +	JASPL	100.3 	92.1 	+-	 	110./ 	++	† +	121.6 +	11/.5 		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN													
+	LN	-1 /	154	LN	-2 /	155	LN	-3 / +	156 +					
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA					
1 1	• •	106.0	1	: :	115.5		• •	112.6	93.5					
2		101.0	84.9	160.0	107.7	94.3	: :	109.9	99.0					
3	210.0	92.0	81.1	240.0	105.4	96.8		110.8	102.2					
4	280.0	93.1	84.5	320.0	106.4	99.8	• •	110.1	105.3					
5	350.0	87.9	81.3	400.0	99.1		• •	102.0	98.8					
6	420.0	79.3	74.5	480.0	94.7	91.5		108.0	104.8					
7	490.0	76.3	73.1	560.0	96.2	•	• •	104.9	103.0					
8	560.0	73.8	70.6	640.0	90.2	•	11	99.4 102.4	98.6					
9	630.0	66.5	64.6	720.0	79.3	78.5	: :	98.7	101.6 98.7					
10	700.0	57.5 0.0	55.6	800.0	85.7 80.0	84.9 79.2	900.0 990.0	93.1	98.7 93.1					
11 12	770.0 840.0	0.0	0.0	880.0 960.0	74.9	74.9	1080.0	96.8	96.8					
13	910.0	0.0	0.0	1040.0	73.0	73.0	11170.0	92.2	92.8					
•	14 980.0 0.0 0.0 1120.0 72.1 72.1 1260.0 90.3 90.9													
15 1050.0 0.0 0.0 1200.0 62.3 62.9 1350.0 89.8 90.4														
15 1050.0 0.0 0.0 1200.0 62.3 62.9 1350.0 89.8 90. 16 1120.0 0.0 0.0 1280.0 0.0 0.0 1440.0 86.1 87.														
•	11190.0	0.0	•	11360.0	0.0	•	1530.0	83.8	84.8					
	1260.0	0.0	:	1440.0	0.0	•	1620.0	80.8	81.8					
	1330.0	0.0	•	1520.0	0.0	•	1710.0	84.4	85.4					
•	1400.0	0.0	•	1600.0	0.0	•	1800.0	65.5	66.7					
•	1470.0	0.0	•	1680.0	0.0	•	1890.0	0.0	0.0					
22	1540.0	0.0	•	1760.0	0.0	•	1980.0	0.0	0.0					
23	1610.0	0.0	•	1840.0	0.0	•	2070.0	0.0	0.0					
24	1680.0	0.0	0.0	1920.0	0.0		2160.0	0.0	0.0					
•	1750.0	0.0		2000.0	0.0	0.0		0.0	0.0					
26	1820.0	0.0		2080.0	0.0	<u>.</u>	2340.0	0.0	0.0					
•	1890.0	0.0		2160.0	0.0	0.0	2430.0	0.0	i o.o i					
•	1960.0	0.0		2240.0	0.0	0.0	2520.0	0.0	i 0.0 i					
• .	2030.0	0.0		2320.0	j 0.0	•	2610.0	0.0	0.0					
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	0.0	0.0					
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	0.0	0.0					
32	2240.0	0.0		2560.0	0.0	•	2880.0	0.0	0.0					
33	2310.0	0.0		2640.0	0.0		2970.0	0.0	0.0					
34	2380.0	0.0		2720.0	0.0		3060.0	0.0	0.0					
35	2450.0	0.0		2800.0	0.0	•	3150.0	0.0	0.0					
36	2520.0	•		2880.0	•	•	3240.0	0.0	0.0					
	2590.0	•		[2960.0	-		3330.0	0.0	0.0					
	2660.0	•		3740.0	•		3420.0		0.0					
	2730.0			3120.0	•	•	3510.0	•	0.0					
	2800.0						3600.0		0.0					
							++							
-							+ +							
							 +		112.0					
+		+		r+	+	+	++		++					

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

CONTRACTOR SERVICES SERVICES RECEDED BESTERED BESTERED BY THE PROPERTY OF THE

MICROPHONE: MP 7 (PITCH ANGLE: 19.9 DEG)

	-	+			DATE A		DIBI			-
		 			DATA-	POINT /	RUN			
+	+	LN-	-1 /	154 +	LN	-2 /	155 ++	LN	-3 / :	156 ++
H	N	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
	1	70.0	103.6	77.4	80.0	112.0	89.5	90.0	110.7	91.6
	2	140.0	94.0	•	160.0	102.8	89.4	180.0	0.0	0.0
1	3	210.0	87.5	76.6	240.0	99.9	, ,	270.0	0.0	0.0
•	4	•	75.9	•	320.0	92.9		360.0	0.0	0.0
- 1	5		0.0		400.0	81.4		450.0	0.0	0.0
- !	6		0.0		480.0	69.8	:	540.0	0.0	0.0
ļ	7	:	0.0	:	560.0	80.4	77.2		0.0	0.0
:	8	560.0	0.0	0.0	640.0	76.2	74.3	720.0	0.0	0.0
	9	630.0	0.0	0.0	720.0	69.6	68.8	810.0	0.0	0.0
	0	700.0	0.0	0.0	800.0	39.2	38.4	900.0	0.0	0.0
•	1	770.0	0.0	0.0	880.0	0.0	,	990.0	[0.0	0.0
	2	840.0	0.0	0.0	960.0	0.0		1080.0	0.0	0.0
•	3	910.0	0.0	•	1040.0	0.0	•	1170.0	0.0	0.0
•	4	980.0	0.0	•	11120.0	0.0		11260.0	0.0	0.0
•	•	1050.0	0.0	*	11200.0	0.0	•	1350.0 1440.0	0.0	0.0
		1120.0	0.0	•	11280.0	0.0		1530.0	0.0 0.0	0.0
:		1190.0	0.0	:	1360.0	0.0 0.0		1620.0	0.0	0.0 0.0
1	- :	1260.0	0.0	•	1440.0	0.0	:	1710.0	0.0	0.0
•		1330.0 1400.0	0.0 0.0	:	1520.0 1600.0	0.0		1800.0	0.0	0.0
2	•	1470.0	0.0	!	1680.0	0.0		1890.0	0.0	0.0
2		1540.0	0.0	:	1760.0	0.0		1980.0	0.0	0.0
:		1610.0	0.0	:	11840.0	0.0		2070.0	0.0	0.0
		1680.0	0.0		1920.0	0.0		2160.0	0.0	0.0
,	•	1750.0	0.0	•	2000.0	0.0		2250.0	0.0	0.0
•		1820.0	0.0	•	2080.0	0.0		2340.0	0.0	0.0
:		1890.0	0.0	•	2160.0	0.0	•	2430.0	0.0	0.0
	•	1960.0	0.0	:	2240.0	0.0		2520.0	0.0	0.0
1 2		2030.0	0.0	•	2320.0	0.0		2610.0	0.0	0.0 i
	•	2100.0	0.0	•	2400.0	0.0		2700.0	0.0	0.0
3		2170.0	0.0	•	2480.0	0.0		2790.0	0.0	0.0
•		2240.0			2560.0	0.0	: :	2880.0		
- :		2310.0			2640.0	0.0		2970.0		
		2380.0			2720.0	0.0		3060.0	•	
3		2450.0			2800.0	0.0	0.0	3150.0	0.0	0.0
3	6	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	0.0	0.0
3	7	2590.0	0.0		2960.0	0.0	0.0	3330.0	0.0	0.0
3	8	2660.0	0.0		3040.0			3420.0		
3	9	2730.0	0.0	•	3120.0			•		•
		2800.0			3200.0					
					++					
+					 - 					
ļ	O.	ASPL	104.1	82.3	1	112.7	95.6	!	110.7	91.6
+			r	r	++		+	+		+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPIA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 19.9 DEG)

		•	+ 			-	DATA-	POINT /	-	RUN	-			!
4		+-	l LN	-1 /	154	 -	LN	-2 /	1		1	•	-3 /	156
	HN	1	F	SPL	SPLA		F	SPL	1	SPLA	 -] F	SPL	SPLA
į	1	į	•	102.7	•	ĺ	•	108.5	į	86.0	1	:	110.5	91.4
ļ	2	ļ		100.6	84.5	ļ	160.0	106.7	ļ	93.3	ļ	•	110.2	99.3
!	3	ļ	210.0	96.0	85.1	-	240.0	105.1	1	96.5	ļ	270.0	110.4	101.8
ŀ				91.5	82.9	ļ	320.0	102.0	ļ	95.4	1	360.0	110.2	105.4
ļ				86.3 84.7	79.7		400.0	101.1	1	96.3	l	•	•	1106.5
ŀ		 		64.7 78.9	79.9 75.7	ļ	480.0 560.0	98.2 96.4	ŀ	95.0 93.2		•	•	1105.8
ł		1		76.4	73.7	!	640.0	90.4	ŀ		1	•	•	106.4 106.5
1	_	1		68.0	66.1	1	720.0	91.5	1		 	•	•	105.8
j				0.0	·	i	:	88.6	ŀ			•	•	103.6
i				0.0	0.0	1	880.0	84.7	í		ľ	•	•	104.3
i		i		0.0	0.0	i.	960.0	83.3	ì		•	•	•	102.3
i		i		0.0	-	i	1040.0	79.3	ì			•	:	101.5
i	14	Ì	980.0	0.0	7	•	1120.0	76.4	i			1260.0	•	100.2
i	15	i	1050.0	0.0	0.0	•	1200.0	75.0	i			1350.0	98.3	98.9
												96.2	97.2	
j	17	11	1190.0	0.0	0.0	İ	1360.0	69.6	İ	70.2		1530.0	94.7	95.7
1	18	П	1260.0	0.0	0.0	ļļ	1440.0	65.4	l	66.4		1620.0	93.4	94.4
-1			1330.0	0.0	•	•	1520.0	0.0	i	0.0		1710.0	90.9	91.9
1		1400.0 0.0			-	•	1600.0	0.0	1	•		1800.0	90.5	91.7
-			1470.0	0.0 0.0	-		1680.0	0.0	ļ			1890.0	88.6	89.8
ļ			1540.0		: :	1760.0	0.0	ļ	•		1980.0	86.8	88.0	
!			1610.0			1840.0	0.0	ļ			2070.0	85.2	86.4	
ļ			1680.0	0.0	•		1920.0	0.0	ļ			2160.0	84.5	85.7
!			1750.0	0.0	•	٠.	2000.0	0.0	ļ			2250.0	81.1	82.4
- [1820.0	0.0			2080.0	0.0	l	•		2340.0	81.1	82.4
- [1890.0 1960.0	0.0			2160.0	0.0	!			2430.0 2520.0	79.1	80.4
1			2030.0	0.0			2320.0	0.0	!	•		2610.0	76.5 75.7	77.8 77.0
1			2100.0	0.0			2400.0	0.0	ŀ			2700.0	74.7	77.0 76.0
1		•	2170.0	0.0			2480.0	0.0	1	•		2790.0	74.7	76.0 76.0
i			2240.0	•			2560.0		ŀ			2880.0		
ì			2310.0				2640.0							
i							2720.0							. ,
			2450.0	•			2800.0							
			2520.0			•	2880.0		•					
			2590.0				2960.0		•					0.0
1	38	1	2660.0	0.0	0.0		3040.0							0.0
-							3120.0							0.0
1			2800.0				3200.0							
+					-									-
i	(DΑ	SPL	105.6	90.4	H	1	112.9	1 3	103.8	ł		119.5	115.9
+				h		+			+ -	+	+			+

F - FREQUENCY HZ

ASSESSED ASSESSED FOR THE PROPERTY OF THE PROP

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

DATA-POINT / RUN												
 +	 LN-	-1 / :		LN	-2 /	155 ++	LN	-3 /	156 +			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA			
1	70.0	102.1	75.9	80.0	110.6	88.1	90.0	108.6	89.5			
2	140.0	100.4	84.3	• •	105.3	91.9	•	106.5	95.6			
3	210.0	91.1	80.2	240.0	101.8	93.2		•	104.4			
4	280.0	94.2	85.6	320.0	104.3	97.7	360.0	•	105.4			
5	350.0	88.8	82.2	400.0	99.0	94.2	•	•	106.4			
6	420.0	79.3	74.5	480.0	96.9	93.7	•	•	106.5			
7	490.0	78.8	75.6	560.0	96.6	93.4	•	•	106.3			
8	560.0	75.1	71.9	640.0	92.3	90.4	•	•	105.6			
9	•	72.3	70.4	720.0	89.2		•	•	106.5			
10	700.0	67.7	65.8	800.0	88.3	87.5		•	103.6			
11	770.0	0.0	0.0	880.0	85.5	84.7	•	•	102.3			
12	840.0	0.0	0.0	960.0	80.7		•	-	103.9			
13	910.0	0.0		11040.0	81.6	. ,	•	101.7	102.3			
14	980.0	0.0		1120.0	74.6	•	1260.0	98.6	99.2			
15 1050.0 0.0 0.0 1200.0 0.0 0.0 1350.0 99.6 16 1120.0 0.0 0.0 1280.0 0.0 0.0 1440.0 97.4												
•	:				•		•	•	98.4			
•	1190.0	0.0		1360.0	0.0		1530.0	94.7	95.7			
	1260.0	0.0	*	1440.0	0.0	: :	11620.0	93.7	94.7			
•	1330.0	0.0	•	1520.0	0.0	1 1	1710.0	91.5	92.5			
-	1400.0	0.0		11600.0] 0.0		1800.0	90.3	91.5			
	1470.0	0.0		1680.0	0.0	•	11890.0	89.3	90.5			
•	1540.0	0.0		11760.0	0.0	•	1980.0	85.1	86.3			
•	1610.0	0.0		[1840.0	0.0		2070.0	85.7	86.9			
	1680.0	0.0		1920.0	0.0 0.0		2160.0 2250.0	86.0 78.1	87.2			
•	1750.0 1820.0	0.0		2000.0 2080.0	0.0		2340.0	81.0	82.3			
	1890.0	0.0	•	2060.0	0.0	:	2430.0	31.0 78.7	80.0			
	1960.0	0.0		2240.0	0.0	•	2520.0	76.3	77.6			
	2030.0	0.0	•	2320.0	0.0		2610.0	77.1	78.4			
30	2100.0	0.0	•	2400.0	0.0		2700.0	74.4	75.7			
31	:	0.0	•	12480.0	0.0		2790.0	73.8	75.1			
	2240.0	0.0		2560.0	0.0		2880.0	•	75.8			
	2310.0	0.0		2640.0	0.0		2970.0		72.9			
	2380.0	0.0		2720.0	0.0		3060.0	:	70.0			
	2450.0	0.0		2800.0	0.0	: :	3150.0		70.7			
	2520.0	0.0		2880.0	0.0	•	3240.0		69.7			
	2590.0	0.0		2960.0	0.0	•	3330.0	1	64.1			
	2660.0	0.0		3040.0	0.0		3420.0	:	0.0			
	2730.0	0.0		3120.0	•		3510.0					
40	2800.0).0	0.0	3200.0	0.0	0.0	3600.0	0.0	0.0			
				⊦+ ⊦+								
		105.1				103.0		119.4				

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 23.7 DEG)

	DATA-POINT / RUN											
.	LN	-4 /	157	1	LN	-5 /	158	<u> </u>	LN	-6 /	 159 ++	
HN	F	SPL	SPLA	1	F	SPL	SPLA	 -	, F +	SPL	SPLA	
1	[] 60.0	95.9	69.7	İ	•	102.1	75.9	1	•	107.5	85.0	
2	120.0	84.7	68.6	ļ	140.0	92.5	76.4	ļ	•	102.3	88.9	
3	180.0	77.9	67.0	ļ	210.0	90.3	79.4	ļ	240.0	99.2	90.6	
4	240.0	74.0	65.4	١	280.0	82.6	74.0	ļ	320.0	95.1	88.5	
5	300.0	60.0	53.4	ļ	350.0	78.7	72.1	ļ	400.0	92.3	87.5	
•]] 360.0	0.0	0.0	ļ		72.6	•			,	82.1	
•	420.0	0.0	0.0	ļ	490.0	68.9	•	[560.0	75.3	72.1	
8	480.0	0.0	0.0	1	560.0	55.6			•	74.5	72.6	
9	540.0	0.0	0.0	1	630.0	0.0			I .	76.1	75.3	
10	600.0	0.0	0.0	ļ	700.0	0.0				70.5	69.7 58.4	
:	660.0	0.0	0.0	1	770.0	0.0	0.0 0.0		880.0 960.0	59.2 0.0	0.0	
	11 720.0	0.0	0.0		840.0 910.0	0.0 1 0.0	•		1040.0	1 0.0	0.0	
13	780.0 840.0	0.0	0.0	ŀ	980.0	0.0			1120.0	0.0	0.0	
1 15	900.0	0.0	0.0	;	1050.0	0.0	•	•	1200.0	0.0	0.0	
16	960.0	0.0	0.0		1120.0	0.0			1280.0	0.0	0.0	
17	1020.0	0.0	0.0	•	1120.0	0.0	•		1360.0	0.0	0.0	
18	1020.0	0.0	0.0	•	1260.0	0.0	•	•	1440.0	0.0	0.0	
•	{{1140.0	0.0	0.0		1330.0	0.0	•	•	1520.0	0.0	0.0	
20	1200.0	0.0	0.0	•	1400.0	0.0		•	1600.0	0.0	0.0	
21	1260.0	0.0	0.0	•	1470.0	0.0	•	•	1680.0	0.0	0.0	
•	1320.0	0.0	0.0	•	1540.0	0.0	•	•	1760.0	0.0	0.0	
23	1320.0	0.0	0.0	•	1610.0	0.0	•		1840.0	0.0	0.0	
24	11440.0	0.0	0.0		1680.0	0.0	•	•	1920.0	0.0	0.0	
•	1500.0	0.0	0.0		1750.0	0.0			2000.0	0.0	0.0	
26	1560.0	0.0	0.0	•	1820.0	0.0	•		2080.0	0.0	0.0	
•	1620.0	0.0	0.0	-	1890.0	0.0			2160.0	0.0	i 0.0 i	
•	11680.0	0.0		•	1960.0	0.0			2240.0	0.0	0.0	
	11740.0	0.0	0.0	İ	2030.0	0.0	0.0		2320.0	0.0	0.0	
	1800.0	0.0	0.0	ĺ	2100.0	0.0	0.0		2400.0	0.0	0.0	
31	1860.0	0.0	0.0	Ì	2170.0	0.0	0.0		2480.0	0.0	0.0	
32	11920.0	0.0	0.0	1	2240.0	0.0	0.0		2560.0	0.0	0.0	
	1980.0			ŀ	2310.0	0.0	0.0		2640.0	0.0	0.0	
34	2040.0	0.0	0.0	l	2380.0	0.0			2720.0	0.0	0.0	
35	2100.0	0.0	0.0	1	2450.0	0.0			2800.0	0.0	0.0	
36	2160.0	0.0			2520.0				2880.0	0.0	0.0	
•	2220.0	0.0		•	2590.0				2960.0		0.0	
•	2280.0	•		-	2660.0				3040.0	•	0.0	
•	2340.0				2730.0				3120.0		0.0	
	2400.0				2800.0				3200.0			
	++											
İ	OASPL	96.3	74.0	1	1	102.9	83.5			109.4	95.8	
+++++									+	++		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 23.7 DEG)

	+ !			-	DATA-	POINT /	RUN			
+	LN	-4 /	157		LN	-5 / +		LN	-6 /	15 9
HN	F	SPL	SPLA	į	F	SPL		•	SPL	SPLA
1	60.0	97.3	•	Ī	70.0	105.7	•	•	106.3	83.8
2	1 120.0	93.7	77.6	ı	140.0	102.9	86.8	•	107.2	93.8
3	180.0	87.8	76.9	ı	210.0	97.0	86.1	240.0	103.5	94.9
4	240.0	79.7	71.1	ŀ	280.0	93.6	85.0	320.0	99.8	93.2
5	300.0	72.5	65.9	ļ	350.0	88.1	81.5	400.0	98.1	93.3
•	1 360.0	62.1	57.3	ļ	420.0	81.0	76.2	480.0	•	93.8
7	420.0	0.0	0.0	ļ	490.0	79.2	•	560.0	93.8	90.6
8	480.0	0.0	0.0	ļ	560.0	73.2	•	640.0	88.5	86.6
	540.0	0.0	0.0	ļ	630.0	62.2	•	720.0	84.9	84.1
	600.0	0.0	0.0	-	700.0	0.0		800.0	82.8	82.0
•	660.0	0.0	•	1	!	0.0		880.0	79.2	78.4
1	11 720.0	0.0		1	840.0	0.0		960.0	73.9	73.9
:	1 780.0] 0.0	0.0	1	910.0	0.0		11040.0	69.2	69.2
14 15	840.0	0.0	0.0		980.0	0.0		1120.0	69.6	69.6
1 16	900.0 960.0	0.0	0.0 0.0	•	1050.0 1120.0	0.0 0.0		11200.0	64.2	64.8
<u>'</u>	300.0	0.0	0.0	•	1120.0	0.0		1280.0 1360.0	0.0	0.0
	11020.0	0.0			1260.0	0.0	•	1440.0	0.0	0.0
:	11140.0	0.0	•	•	1330.0	0.0	•	1520.0	0.0	0.0
,	1200.0	0.0			1400.0	0.0	•	1600.0	0.0	0.0
•	1260.0	0.0			1470.0	0.0	•	1680.0	0.0	0.0
•	1320.0	0.0	•	-	1540.0	0.0		1760.0	0.0	0.0
•	1330.0	0.0	•	•	1610.0	0.0	•	1840.0	0.0	0.0
•	1440.0	0.0	•	•	1680.0	0.0	•	1920.0	•	0.0
•	1500.0	0.0	•	•	1750.0	0.0	,	2000.0	•	0.0
•	1560.0	j 0.0 j			1820.0	0.0	•	2080.0	0.0	0.0
•	1620.0	0.0			1890.0	0.0		2160.0	0.0	0.0
	1680.0	0.0	•	•	1960.0	0.0		2240.0	0.0	0.0
	1740.0	0.0	•	•	2030.0	0.0		2320.0	0.0	0.0
	1800.0	0.0		•	2100.0	0.0		2400.0	0.0	0.0
31	1860.0	0.0	0.0	l	2170.0	0.0	0.0	2480.0	j 0.0	0.0
32	1920.0	0.0	0.0		2240.0	0.0	0.0	2560.0	0.0	0.0
•	1980.0	•	0.0	H	2310.0	0.0	0.0	2640.0	0.0	0.0
34	2040.0	0.0	0.0		2380.0	0.0	0.0	2720.0	0.0	0.0
•	2100.J	•			2450.0		0.0	2800.0	0.0	0.0
	2160.0			1	2520.0			2880.0	•	0.0
	12220.0			•	2590.0			2960.0	•	:
	2280.0				2660.0			3040.0		0.0
	2340.0			•				3120.0	•	0.0
	2400.0 +				2800.0 			3200.0 +		0.0 +
	DASPL									
	JASPL 									

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

ASSEMBLE PROPERTY OF THE PROPERTY OF THE PAR

MICROPHONE: MP 3 (PITCH ANGLE: 23.7 DEG)

1 60.0 100.5 74.3 70.0 107.5 81.3 80.0 108.1 85.6		DATA-POINT / RUN												
	-	LN	-4 / :	157 +	ļ	l LN	-5 /	158 +	 -	LN	-6 / +	159 +		
1	HN	F	SPL	SPLA	 -	F	SPL	SPLA	 -	F +	SPL	SPLA		
1 180.0 88.1 77.2 210.0 99.0 88.1 240.0 105.8 97.2 4 240.0 81.5 72.9 280.0 94.4 85.8 320.0 102.8 96.2 5 300.0 75.3 68.7 350.0 90.1 83.5 400.0 102.5 97.7 6 360.0 69.2 64.4 420.0 88.1 83.3 480.0 100.1 96.9 7 420.0 0.0 0.0 490.0 88.1 77.9 560.0 94.2 91.0 8 480.0 100.1 96.9 7 420.0 0.0 0.0 560.0 71.8 68.6 640.0 95.1 93.2 91.0 540.0 0.0 0.0 560.0 71.8 68.6 640.0 95.1 93.2 91.5 540.0 0.0 0.0 630.0 74.3 72.4 720.0 91.3 90.5 10 660.0 0.0 0.0 770.0 70.2 68.3 800.0 88.7 87.9 11 660.0 0.0 0.0 770.0 58.8 58.0 880.0 83.4 82.6 12 720.0 0.0 0.0 840.0 0.0 0.0 1040.0 80.0 83.3 83.3 13 780.0 0.0 0.0 910.0 0.0 0.0 1120.0 75.8 75.8 15 900.0 0.0 0.0 1120.0 0.0 0.0 1120.0 75.8 75.8 15 900.0 0.0 0.0 1120.0 0.0 0.0 1120.0 75.8 75.8 16 960.0 0.0 0.0 1120.0 0.0 0.0 1120.0 76.2 76.8 17 1120.0 0.0 0.0 11260.0 0.0 0.0 11260.0 76.7 76.8 77.5			:	•	1	•	•	:	l	•	1	85.6		
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F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 23.7 DEG)

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28 1680.0 0.0 0.0 1960.0 0.0 0.0 2240.0 0.0 0.0 0.0 29 1740.0 0.0 0.0 2030.0 0.0 0.0 2320.0 0.0 0.0 30 1800.0 0.0 0.0 2130.0 0.0 0.0 2400.0 0.0 0.0 31 1860.0 0.0 0.0 2170.0 0.0 0.0 2480.0 0.0 0.0 0.0 32 1920.0 0.0 0.0 2240.0 0.0 0.0 2560.0 0.0 0.0 0.0 33 1980.0 0.0 0.0 2310.0 0.0 0.0 2640.0 0.0 0.0 0.0 34 2040.0 0.0 0.0 2380.0 0.0 0.0 2720.0 0.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2880.0 0.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 0.0 37 2220.0 0.0 0.0 2590.0 0.0 0.0 2960.0 0.0 0.0 0.0 38 2280.0 0.0 0.0 2660.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0				•	•		•		•	•	•	
29 1740.0 0.0 0.0 2030.0 0.0 0.0 2320.0 0.0 0.0 30 1800.0 0.0 0.0 21300.0 0.0 0.0 2400.0 0.0 0.0 31 1860.0 0.0 0.0 2170.0 0.0 0.0 2480.0 0.0 0.0 32 1920.0 0.0 0.0 2240.0 0.0 0.0 2560.0 0.0 0.0 0.0 33 1980.0 0.0 0.0 2310.0 0.0 0.0 2640.0 0.0 0.0 0.0 34 2040.0 0.0 0.0 2380.0 0.0 0.0 2720.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2880.0 0.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 0.0 37 2220.0 0.0 0.0 2590.0 0.0 0.0 2960.0 0.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0		• •	•	1			•		•	•	:	
30 1800.0 0.0 0.0 2100.0 0.0 0.0 2400.0 0.0 0.0 31 1860.0 0.0 0.0 2170.0 0.0 0.0 2480.0 0.0 0.0 0.0 32 1920.0 0.0 0.0 2240.0 0.0 0.0 2560.0 0.0 0.0 0.0 33 1980.0 0.0 0.0 2310.0 0.0 0.0 2640.0 0.0 0.0 0.0 34 2040.0 0.0 0.0 2380.0 0.0 0.0 2720.0 0.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2880.0 0.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 0.0 37 2220.0 0.0 0.0 2590.0 0.0 0.0 2960.0 0.0 0.0 0.0 38 2280.0 0.0 0.0 2660.0 0.0 0.0 3040.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 0.0 3200.0 0.		• •	•	1			•	•	•	!	:	
31 1860.0 0.0 0.0 2170.0 0.0 0.0 2480.0 0.0 0.0 32 1920.0 0.0 0.0 2240.0 0.0 0.0 2560.0 0.0 0.0 33 1980.0 0.0 0.0 2310.0 0.0 0.0 2640.0 0.0 0.0 34 2040.0 0.0 0.0 2380.0 0.0 0.0 2720.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2800.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 37 2220.0 0.0 0.0 2590.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2660.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0				•	•		*	•	•	•	:	
32 1920.0 0.0 0.0 2240.0 0.0 0.0 2560.0 0.0 0.0 33 1980.0 0.0 0.0 2310.0 0.0 0.0 2640.0 0.0 0.0 34 2040.0 0.0 0.0 2380.0 0.0 0.0 2720.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2880.0 0.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 0.0 37 2220.0 0.0 0.0 2590.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2660.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0				•			•			<u>:</u>		
33 1980.0 0.0 0.0 2310.0 0.0 0.0 2640.0 0.0 0.0 34 2040.0 0.0 0.0 2380.0 0.0 0.0	•			•			•	•	•	•	•	
34 2040.0 0.0 0.0 2380.0 0.0 0.0 2720.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2800.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 37 2220.0 0.0 0.0 2590.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2660.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0 0.0												
35 2100.0 0.0 0.0 2450.0 0.0 0.0 2800.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 37 2220.0 0.0 0.0 2590.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2660.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0		• •	•	:	•		*		•	•	0.0	
36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.7 37 2220.0 0.0 0.0 2590.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2660.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.		: :						•	•	•	1	
37 2220.0 0.0 0.0 2590.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2660.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0	•			:	1 1		•		•	•	0.1	
38 2280.0 0.0 0.0 2660.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0				:	: :		:				: :	
39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0	•	• •	0.0	•			0.0	•			0.0	
·+	39	2340.0	0.0	0.0	П	2730.0	0.0	0.0	3120.0	0.0	0.0	
OACDT 1102 0 1 9/ 6 11 1111 01 05 0 11 1115 01 10/ 0	·		+	+	++		+	++	+	+	+	
OASPL 103.9 84.6 111.2 95.2 115.3 106.3												

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SELA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 23.7 DEG)

DATA-POINT / RUN											
	 I	N-4 /	157 +	1	•	-5 /	158	ļ	l LN	-6 /	159
HN	F	SPL	SPLA	•	•	SPL	, SPLA	 -	F	SPL	SPLA
1	11 60.0	•	•	į		110.3		ļ		114.8	92.3
•	11 120.0	•	31.6	ļ	•	106.6		ļ	•	109.7	96.3
3	180.0	•	77.7	ļ	210.0	97.5	•		•	1106.9	98.3
4	11 240.0	•	70.2	1	280.0	97.6	•	ļ	•	•	102.6
•	300.0	•	70.9	1	350.0	95.8	89.2	l 1	•	104.7	99.9
•]] 360.0	•	67.5		•	87.5	•		•	97.2	94.0
•	11 420.0	•	66.7		·	83.1	•		•	99.4	96.2
8	480.0	•	60.0]	!	-	•		•	98.5	96.6
:	11 540.0	•	0.0	1	•		•] 	•	92.7	91.9
10	11 600.0	•	0.0		•	70.4 53.9			:	89.8	89.0
•	660.0	•	0.0		•	1 0.0	•	}	•	85.9	85.1
12	720.0 780.0	•	0.0	1	840.0 910.0	1 0.0			960.0 1040.0	85.8 82.9	85.8 82.9
14	1 840.0		0.0			0.0	•	•	1120.0	77.6	77.6
15	900.0		0.0	•	1050.0	0.0	•	•	1200.0	77.2	77.8
16	960.0		•		1120.0	0.0	*	•	1280.0	76.0	76.6
17	11020.0	•	•		1120.0	0.0	•	•	1360.0	69.0	69.6
18	1080.0	•	•	•	1260.0	0.0			1440.0	67.3	68.3
•	11140.0	•	•	•	1330.0	0.0			1520.0	0.0	0.0
•	1200.0		•	-	1400.0	0.0	-		1600.0	0.0	0.0
•	11260.0	•	•		1470.0	0.0		•	1680.0	0.0	0.0
]]1320.0	•		- 2	1549.0	:	•	•	1760.0	0.0	0.0
23	11380.0	•	0.0	•	1610.0	0.0	:		1840.0	0.0	0.0
24	11440.0	•	0.0		1680.0	0.0	•	•	1920.0	0.0	0.0
•	1500.0	•	0.0	-	1750.0	0.0	•		2000.0	0.0	0.0
	1560.0	•	0.0		1820.0	0.0	•		2080.0	0.0	0.0
	1620.0	•	•	- 1	1890.0	0.0	•		2160.0	0.0	0.0
	1680.0	•	0.0		1960.0	0.0	•		2240.0	0.0	i o.o i
•	11740.0	•	0.0	•	2030.0	0.0	•		2320.0	0.0	j 0.0 j
	11800.0		•		2100.0	0.0	•		2400.0	0.0	0.0
	11860.0	•	•		2170.0	0.0	•		2480.0	0.0	0.0
	[1920.C	•	•		2240.0	•			2560.0	0.0	
	111980.0				2310.0				2640.0	:	: :
	12040.0		:	- 1	2380.0	:	0.0	l	2720.0	0.0	0.0
	12100.0		0.0	1	2450.0	0.0	0.0	ı	2800.0	0.0	0.0
36	2160.0	0.0	0.0		2520.0	0.0	0.0	ì	2880.0	0.0	0.0
37	112220.0	0.0	0.0	1	2590.0	0.0	0.0	1	2960.0	0.0	0.0
38	112280.0] 0.0			2660.0					0.0	0.0
	• •	0.0	•		2730.0				3120.0	•	0.0
	112400.0				2800.0	•	•		3200.0	•	•
		-+									
		104.7									107.4
		-+									

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 23.7 DEG)

		+ !			-	DATA-	POINT /	RUN				
+	4	LN	-4 /	157		LN	-5 /	158		LN	-6 /	159
H	IN	F	SPL	SPLA		F	SPL	SPLA	 !	F	SPL	SPLA
Ì	1	•	103.3	77.1	İ	-	111.1	84.9			116.7	94.2
)	2	120.0	95.9	79.8	ļ,	•	106.4	90.3	! !	•	108.4	95.0
1	3	180.0	87.2	76.3	Ĺ	210.0	97.5	86.6			106.4	97.8
}	4	240.0	80.6	72.0	ľ	280.0	96.9	88.3	1	•	108.1	101.5
	5	300.0	77.0	70.4	H	350.0	93.2	86.6	!		100.0	95.2
- {	6	360.0	72.2	67.4	ŀ	420.0	79.9	75.1		480.0	95.3	92.1
!	7	420.0	66.8	62.0	ļ	490.0	74.9	71.7		560.0	97.4	94.2
ļ	8	480.0	66.3	63.1	H	560.0	78.0	• •			92.1	90.2
! .	9	540.0	53.1	49.9	Ļ	630.0	72.6	•			79.9	79.1
:	10	600.0	0.0	:	Į	4	51.0				87.6	86.8
:		660.0	0.0	0.0	Ц	770.0	0.0	•		1	81.8	81.0
- 1	2	720.0	0.0	0.0		840.0	0.0	0.0	! !	960.0	75.2	75.2
	3	780.0	0.0	0.0		910.0	0.0			1040.0	0.0	0.0
:	4	840.0	0.0	0.0		980.0	0.0	•		1120.0	0.0	0.0
:	5	900.0	0.0	•	•	1050.0	0.0			1200.0	0.0	0.0
	6	960.0	0.0	•		1120.0	0.0			1280.0	0.0	0.0
•	•	11020.0	0.0	•		1190.0	0.0	•		1360.0	0.0	0.0
•		1080.0 1140.0	0.0	•		1260.0 1330.0	0.0	:		1440.0	0.0	0.0
•		1200.0	0.0	•	٠.	1400.0	0.0			1520.0 1600.0	0.0	0.0
•		1260.0	0.0	•		1470.0	0.0		•	1680.0	0.0	0.0
•		1320.0	0.0	-	: :	1540.0	0.0	•	•	1760.0	0.0	0.0
:		[1380.0	0.0	Ξ	: :	1610.0	0.0 0.0	•		1840.0	0.C 0.0	0.0
•	.5	11440.0	0.0	•		1680.0	•					0.0
•		1500.0	0.0	•		1750.0	0.0 0.0	: :		1920.0	0.0 0.0	0.0
•		1560.0	0.0	•	٠.	1820.0	0.0	: :	•	2000.0	I	0.0
•		11620.0	0.0	•		1890.0	0.0		•	2080.0 2160.0	0.0	0.0
		11680.0	0.0	•		1960.0	0.0	,		2240.0	0.0 0.0	0.0 0.0
		1740.0	0.0	•	٠.	2030.0	0.0		•	2320.0	0.0	0.0
•		1800.0	0.0	•		2100.0	0.0		•	2400.0	0.0	0.0
•	•	1860.0	0.0			2170.0	0.0		•	2480.0	0.0	0.0
		1920.0	0.0			2240.0	0.0			2560.0		
		1980.0				2310.0				2640.0		
•		2040.0	:	1	: :	2380.0	0.0			2720.0	•	0.0
		2100.0	0.0	•	: :	2450.0	0.0			2800.0		0.0
		2160.0	0.0	:		2520.0	0.0			2880.0		0.0
•		2220.0	0.0			2590.0	0.0		-	2960.0	•	0.0
		2280.0	•	:		2660.0	0.0			3040.0	•	0.0
	•	2340.0	Ĭ	•		2/30.0			•	3120.0		0.0
•		2400.0	:	•		800.0				3200.0		0.0
	+	-	+	·	1				+			
+		ACDI										
 +		ASPL						94.8 j ++				105.5

⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

AD-A174 988

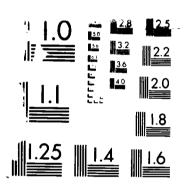
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TO BE SECTION TEST CHARTS NOT THE TEST OF

MICROPHONE: MP 7 (PITCH ANGLE: 23.7 DEG)

		+ !			-	DATA-	POINT /	RUN			+ !
+		LN	-4 / :	157		LN	-5 /	158 j	LN	-6 /	159 +
į	HN	, F	SPL	SPLA	i I	F	SPL	SPLA	F	SPL	SPLA
Ĭ	1	60.0	98.3	72.1		•	110.3	84.1	•	114.5	92.0
ļ	2	•	89.2	73.1	ļ	140.0	99.3	83.2	•	102.8	89.4
1	3		77.0	66.1	ļ	210.0	93.3	82.4	•	100.0	91.4
ļ	4]	•	70.5	61.9	ļ	280.0	80.6	72.0	320.0	94.0	87.4
ļ	5	300 0	60.9	54.3	ļ	350.0	76.1	69.5	400.0	85.7	80.9
ļ	6	? J.0	0.0	0.0	ļ	420.0	69.4	64.6	480.0	75.4	72.2
ļ	7	420.0	0.0	0.0	ļ	490.0	0.0	0.0	560.0	0.0	0.0
ļ	8	480.0	0.0	0.0	ļ	560.0	0.0	0.0	640.0	0.0	0.0
ļ	9	540.0	0.0	0.0	ļ	630.0	0.0	0.0	720.0	0.0	0.0
!	10	600.0	0.0	0.0	!	700.0	0.0	0.0	800.0	0.0	0.0
ļ	11	•	0.0	0.0	-	770.0	0.0	0.0	880.0 960.0	0.0	0.0
1	12	•	0.0	0.0	ļ	840.0	0.0 0.0	0.0	1040.0	0.0	0.0
ł	13	•	0.0	0.0 0.0	!	910.0 980.0	0.0		1120.0	0.0	0.0 0.0
1	15	840.0	0.0	0.0		1050.0	0.0		1200.0	0.0	0.0
i	16	960.0	0.0		•	1120.0	0.0		1280.0	0.0	0.0
1		1020.0	0.0		•	1120.0	0.0		1360.0	0.0	0.0
ł		1020.0	0.0	•	•	1260.0	0.0	•	1440.0	0.0	0.0
ł	•	1140.0	0.0		•	1330.0	0.0		1520.0	0.0	0.0
ł	•	11200.0	0.0	0.0	•	1400.0	0.0		1600.0	0.0	0.0
ł	21	1260.0	0.0	0.0	:	1470.0	0.0		1680.0	0.0	0.0
	22	1320.0	0.0	0.0	•	1540.0	0.0		1760.0	0.0	0.0
ł	23	•	•	•	1610.0	0.0		1840.0	0.0	0.0	
ł	24	1380.0 0.0 1440.0 0.0		•	•	1680.0	0.0	:	1920.0	0.0	0.0
i	25	1500.0	0.0	•	•	1750.0	0.0		2000.0	0.0	0.0
i	•	1560.0	0.0	•	•	1820.0	0.0	0.0	:	0.0	0.0
i		1620.0	0.0		•	1890.0	0.0		2160.0	0.0	0.0
i	28	1680.0	0.0	•	•	1960.0	0.0		2240.0	0.0	0.0
i		1740.0	0.0		•	2030.0	0.0		2320.0	0.0	0.0
i	•	1800.0	0.0		•	2100.0	0.0		2400.0	0.0	i 0.0 i
i	•	1860.0	0.0		•	2170.0	0.0		2480.0	0.0	0.0
i	•	1920.0	:		:	2240.0		:	2560.0		0.0
į		1980.0	0.0		-	2310.0			2640.0		0.0
i	34	2040.0	0.0			2380.0	•		2720.0		0.0
İ		2100.0			-	2450.0	0.0		2800.0		0.0
İ	:	2160.0				2520.0	0.0	0.0	2880.0	0.0	0.0
i		2220.0				2590.0			2960.0	0.0	0.0
İ	•	2280.0	0.0			2660.0		0.0	3040.0	0.0	0.0
j		2340.0				2730.0			3120.0		0.0
İ		2400.0							3200.0		
+	+	+									+ +
+									+ 1		
1		ASPL		76.3				88.2			96.5
+			r		т-			-	T		

F - FREQUENCY HZ

RECERT OF THE PROPERTY OF THE

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 23.7 DEG)

	+ !			DATA-	POINT /	RUN			
.	 LN	-4 / :	157	LN	-5 /	158	LN	-6 / +	159
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1 1	60.0	102.7	76.5	70.0	107.3	81.1	•	109.7	87.2
2	120.0	0.0	0.0	140.0	105.1	89.0	160.0	107.5	94.1
3	180.0	0.0	0.0	210.0	99.5	88.6	240.0	107.0	98.4
4	240.0	0.0	0.0	280.0	94.9	86.3	320.0	103.1	96.5
5 1	300.0	0.0	0.0	350.0	88.2	81.6	400.0	102.3	97.5
6	360.0	0.0	0.0	420.0	86.1	81.3	480.0	99.4	96.2
7	420.0	0.0	0.0	490.0	81.1	77.9	560.0	97.1	93.9
8	480.0	0.0	0.0	560.0	79.5	76.3	640.0	94.8	92.9
9	540.0	0.0	0.0	630.0	74.2	72.3	720.0	92.0	91.2
10	600.0	0.0	0.0	700.0	69.1	67.2	800.0	90.3	89.5
11	660.0	0.0	0.0	770.0	64.3	63.5	880.0	87.7	86.9
12	720.0	0.0	0.0	840.0	60.6	59.8	960.0	84.4	84.4
13	780.0	0.0	0.0	910.0	0.0	•	1040.0 11120.0	82.3	82.3
14	840.0	0.0	0.0	980.0	0.0			78.7 75.9	78.7 76.5
15	900.0	0.0	•	11050.0	0.0		1200.0 1280.0	76.1	76.3 76.7
16	960.0	0.0	•	1120.0	0.0	, ,	1360.0	68.9	70.7 69.5
	1020.0	0.0	•	1190.0 1260.0	0.0		11440.0	0.0	0.0
7 7	1080.0	0.0		1280.0	0.0	0.0	1520.0	0.0	0.0
•	1140.0	0.0		1400.0	0.0	0.0	1600.0	0.0	0.0
	1200.0	0.0	•	1470.0	0.0	0.0 0.0	1680.0	0.0	0.0
	1260.0 1320.0	0.0	•	1540.0	0.0		1760.0	0.0	0.0
	1380.0	0.0	•	1610.0	0.0		1840.0	0.0	0.0
	1440.0	0.0	•	1680.0	0.0	0.0	1920.0	0.0	0.0
	1500.0	0.0	•	1750.0	0.0	0.0	2000.0	0.0	0.0
	1560.0	0.0	•	1820.0	0.0		2080.0	0.0	0.0
	1620.0	0.0		1890.0	0.0		2160.0	0.0	0.0
	1680.0	0.0	•	1960.0	0.0	!	2240.0	0.0	0.0
, ,	1740.0	0.0	•	2030.0	0.0	•	2320.0	0.0	0.0
	1800.0	0.0	•	2100.0	0.0	0.0	2400.0	0.0	0.0
	1860.0	0.0		2170.0	0.0	0.0	2480.0	0.0	0.0
1	1920.0			2240.0	0.0		2560.0	•	
•	1980.0			2310.0		: :	2640.0		
	2040.0		•	2380.0	•		2720.0	•	: :
	2100.0			2450.0	7		2800.0	•	:
	2160.0	•		2520.0	-		2880.0	:	
	2220.0	-		2590.0	•	0.0	2960.0	0.0	0.0
j 38 j	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0
	12400.0								
+		}		-+	+	++	+	t	++
	ASPL		76.5 	 -	110.0 	93.9 +	 +		105.0 +

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 23.7 DEG)

	DATA-POINT / RUN										
+	LN	-4 / +	157 +	 -	LN	-5 / +		L!	V-6 /	159 +	
HN	F	SPL	_	•	•	SPL		•	SPL	SPLA	
1 1		104.6	78.4	İ	•	106.2	80.0	•	110.9	88.4	
2	120.0	94.5	78.4	ļ	140.0	104.1	88.0	160.0	105.7	92.3	
3	180.0	87.9	77.0	ļ	210.0	94.6	83.7	240.0	103.7	95.1	
4	240.0	79.6	71.0	ļ	280.0	97.2	88.6	320.0	105.1	98.5	
5	300.0	77.6	71.0	ļ	350.0	91.6	85.0	400.0	99.5	94.7	
1 6	360.0	73.7	68.9	ļ	420.0	84.6	79.8	480.0	98.4	95.2	
] 7	420.0	61.8	57.0	ļ	490.0	80.7	77.5	560.0	98.8	95.6	
8	480.0	0.0	0.0	ļ	•	78.5		640.0	94.1	92.2	
1 9	540.0	0.0		ļ	•	75.6	73.7	720.0	91.1	90.3	
10	600.0 660.0	0.0	0.0	ł	:	66.7	64.8 0.0	800.0	90.6	89.8	
111	! !	0.0	0.0	1	770.0 840.0	0.0		880.0	86.2	85.4	
12	720.0 780.0	0.0	0.0 0.0	1	910.0	0.0		960.0 1040.0	82.0 83.6	82.0 83.6	
1 14	780.0 840.0	0.0 0.0	0.0	ŀ	980.0	0.0 0.0	•	1120.0	80.3	80.3	
1 15	1 900.0	0.0	0.0	1	1050.0	0.0		1200.0	78.2	30.3 78.8	
1 16	1 960.0	0.0	0.0	•	1120.0	0.0		1280.0	70.2	70.8	
1 17	11020.0	0.0	0.0	•	1190.0	0.0	•	1360.0	0.0	0.0	
1 18] 1080.0	0.0	0.0	•	1260.0	0.0	•	1440.0	0.0	0.0	
•	11140.0	0.0	•	•	1330.0	0.0		1520.0	0.0	0.0	
•	1200.0	0.0	•	•	1400.0	0.0	•	1600.0	0.0	0.0	
•	1260.0	0.0	•	•	1470.0	0.0	•	1680.0	0.0	0.0	
•	1320.0	0.0	•	•	1540.0	0.0		1760.0	0.0	0.0	
•	1380.0	0.0	•	•	1610.0	0.0		1840.0	0.0	0.0	
•	11440.0	0.0	•	•	1680.0	0.0		1920.0	0.0	0.0	
•	1500.0	0.0	•	•	1750.0	0.0		2000.0	0.0	0.0	
	1560.0	0.0	•	•	1820.0	0.0		2080.0	0.0	0.0	
•	1620.0	0.0	•	•	1890.0	0.0		2160.0	j 0.0	i o.o i	
28	1680.0	0.0	0.0	İ	1960.0	0.0		2240.0	0.0	j 0.0 j	
29	1740.0	0.0	0.0	İ	2030.0	0.0		2320.0	0.0	j 0.0 j	
30	11800.0	0.0	0.0	1	2100.0	0.0	0.0	2400.0	0.0	0.0	
	1860.0	0.0	•	•	2170.0	0.0		2480.0	0.0	0.0	
32	1920.0	0.0	0.0		2240.0	0.0	0.0	2560.0	0.0	0.0	
•	1980.0				2310.0			2640.0		0.0	
•	1 2040.0	•			2380.0			2720.0	•		
•	2100.0	•	•		2450.0			2800.0	•	0.0	
•	1 2160.0	•		:	2520.0			2880.0	•	0.0	
•	1 2220.0	•	•	•	2590.0	•		2960.0			
-	1 2280.0		•		2660.0			•			
•	2340.0	•	•	•	2730.0			•	•	: :	
	2400.0				2800.0						
+	++										
+					+						
	OASPL										
+		r	r	*-					·		

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN										
						_	·	_			j
+	-+-	FN:	-1 / :	166 +	1	FN	-2 / : +	167 ++	FN	-3 / +	168 ++
HN		F	SPL	SPLA	ļ	- F +	SPL	SPLA	F	SPL	SPLA
1 1	i	70.0	101.9	75.7	i	80.0	106.2	83.7	90.0	112.0	92.9
2	•	140.0	95.6	79.5	ļ	160.0	105.3	91.9	•	110.0	99.1
3	•	210.0	93.0	82.1	ļ	240.0	103.1	94.5	•		102.7
4	•	280.0	87.3	78.7	ļ	320.0	99.7	93.1	•	•	105.0
5	•	350.0	83.2	76.6	!	400.0	98.1	93.3	•		104.6
6	•	420.0	79.0	74.2	ļ	480.0	91.5	88.3	•	1	102.7
7	•	490.0	72.9	69.7	ļ	560.0	87.6	84.4	630.0	•	103.9
8	•	560.0	65.6	62.4	ļ	640.0	87.5	85.6	720.0	1	103.4
9	•	630.0	57.7	55.8		720.0	83.1	82.3	810.0	:	101.1
10	•	700.0	57.1	55.2 0.0	}	800.0	80.8	80.0	900.0	1	101.2
1 11	•	770.0 840.0	0.0 0.0	0.0	ŀ	880.0 960.0	75.0 72.0	74.2 72.0	990.0	99.7 95.7	99.7 95.7
13	•	910.0	0.0	0.0	1	1040.0	70.8	72.0 70.8	1080.0 1170.0	93.7	93.7
14		980.0	0.0	0.0	•	1120.0	63.8		1170.0	91.7	92.3
1 15		1050.0	0.0	0.0	•	1200.0	56.3		1350.0	89.2	89.8
16	•	1120.0	0.0	0.0		1280.0	53.7	•	1440.0	85.0	86.0
1 17	•	1190.0	0.0	0.0	•	1360.0	0.0		1530.0	88.3	89.3
18	•	1260.0	0.0	0.0	•	1440.0	0.0		1620.0	83.7	84.7
1 19	i	1330.0	0.0	0.0	•	1520.0	0.0	•	1710.0	77.8	78.8
20	i.	1400.0	0.0	0.0	•	1600.0	0.0		1800.0	80.9	82.1
j 21		1470.0	0.0	0.0	•	1680.0	0.0	: :	1890.0	78.2	79.4
22		1540.0	0.0	0.0	•	1760.0	0.0	: :	1980.0	75.6	76.8
23		1610.0	0.0	0.0	•	1840.0	0.0	: :	2070.0	71.9	73.1
24	ÌÌ	1680.0	0.0	0.0	İ	1920.0	0.0	0.0	2160.0	70.8	72.0
25		1750.0	0.0	0.0	İ	2000.0	0.0	0.0	2250.0	0.0	0.0
26		1820.0	0.0	0.0		2080.0	0.0	0.0	2340.0	0.0	0.0
27	-	1890.0	0.0	0.0	1	2160.0	0.0	0.0	2430.0	0.0	0.0
28	-	1960.0	0.0	0.0		2240.0	0.0	0.0	2520.0	0.0	0.0
29		2030.0	0.0	0.0	•	2320.0	0.0	0.0	2610.0	0.0	0.0
30	Ш	2100.0	0.0	0.0	•	2400.0	0.0	•	2700.0	0.0	0.0
31		2170.0	0.0	0.0		2480.0	0.0		2790.0	0.0	0.0
•		2240.0				2560.0			2880.0		
:		2310.0	0.0			2640.0	0.0	:	2970.0	:	0.0
34	, ,	2380.0				2720.0			3060.0	•	0.0
35		2450.0				2800.0			3150.0		0.0
36	• • •	2520.0				2880.0			3240.0	•	0.0
37		2590.0				2960.0			3330.0	•	0.0
38		2660.0 2730.0				3040.0			3420.0 3510.0		0.0
•		2800.0				3120.0 3200.0			3510.0 3600.0	•	
•									3000.0 	•	0.0
+									+		, -
		ASPL	103.4	86.5			110.6	100.2		118.5	113.0
T					_			r	T		r- +

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 19.9 DEG)

	-	DATA-POINT / RUN										
+	-+-	 FN	-1 / :	166	1		-2 /			•	-3 /	 168 ++
HN	 -	, F +	SPL	SPLA	•	•	SPL		:		SPL	SPLA
1	į	•	105.7	79.5	į	•	109.0	•	ļ	•	113.5	94.4
2	ļ	•	101.5	85.4	ļ	•	108.8	95.4	ļ	•	118.4	107.5
3	!	210.0	97.7	86.8	ļ	•	106.1	97.5	ļ	•	111.6	103.0
4	ļ	280.0	93.8	85.2	1	•	102.2	95.6		•	1113.6	108.8
5	ļ	350.0	87.8	81.2	ļ	•	101.5	96.7		•	•	110.9
6	ļ	420.0	85.0	80.2	-	•	101.7	98.5	,	•	•	111.0
7]		83.4	80.2	ļ	560.0	98.5	•	Ì	•	•	110.4
8	!	560.0	79.1	75.9	ļ	640.0	94.9	93.0	 	•	•	1108.7
9	ļ	•	71.8	69.9	1	720.0	91.0 90.2	90.2 89.4		•	•	109.7 110.5
10		<u>.</u>	68.1 65.3	66.2		800.0 880.0	88.9	88.1	1	•	•	110.3
11 12	1	•	0.0		1	960.0	84.9	•] 	•	107.7	
1 13	i	•	0.0		1	1040.0	80.6	•	•	•	•	106.4
1 14	i		0.0		•	1120.0	78.5	•	•	•	•	105.7
1 15	•	1050.0	0.0		•	1200.0	76.5	•	•	•	103.5	104.1
16	•	1120.0	0.0	0.0	•	1280.0	73.4		•	•	101.5	102.5
17	•	1120.0	0.0	0.0	•	1360.0	69.6	•	•	•	100.2	101.2
18		1260.0	0.0	0.0		1440.0	64.7	•	•	1620.0	99.7	100.7
1 19	•	1330.0	0.0	0.0	•	1520.0	63.9	•	•	1710.0	97.8	98.8
20		1400.0	0.0	0.0	•	1600.0	60.3	•	•	1800.0	95.5	96.7
21	•	1470.0	0.0	0.0	•	1680.0	57.6			1890.0	94.2	95.4
22	•	1540.0	0.0	0.0	•	1760.0	54.8	•		1980.0	94.5	95.7
23	•	1610.0	0.0	0.0	•	1840.0	44.4	•		2070.0	91.8	93.0
24		1680.0	0.0	0.0		1920.0	0.0	•		2160.0	90.1	91.3
j 25	•	1750.0	0.0	0.0	•	2000.0	0.0	•		2250.0	89.4	90.7
26	•	1820.0	0.0	0.0	•	2080.0	0.0	•		2340.0	88.7	90.0
27	i	1890.0	0.0	0.0	Ĺ	2160.0	0.0	0.0		2430.0	87.2	88.5
28	İ	1960.0	0.0	0.0	İ	2240.0	0.0	0.0	I	2520.0	85.3	86.6
29	İ	2030.0	0.0	0.0	į	2320.0	0.0	0.0	Ì	2610.0	86.1	87.4
30		2100.0	0.0	0.0	1	2400.0	0.0	0.0	Ιį	2700.0	84.8	86.1
		2170.0	0.0	0.0	1	2480.0	0.0		•	2790.0	82.4	83.7
		2240.0		0.0	1	2560.0	0.0	0.0	Ì	2880.0	81.3	82.5
•	•	2310.0			•	2640.0	0.0			2970.0	81.1	82.3
•	•	2380.0				2720.0				3060.0	-	82.3
•		2450.0	0.0		•	2800.0		,		3150.0	•	•
•		2520.0				2880.0					76.7	: :
•	•	2590.0				2960.0				3330.0	-	78.2
•	•	2660.0				3040.0				3420.0	•	76.7
•	•	2730.0				3120.0				3510.0	7	
•	•	2800.0			-	3200.0						73.3
+	-+-	+										++
+												
!	0		107.8			 		105.2				120.3
+			r		7			r			r	-

F - FREQUENCY HZ

THE PROPERTY OF SEASONS AND ASSESSED TO SEASONS AND ASSESSED TO SEASONS AND ASSESSED.

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 19.9 DEG)

		DATA-POINT / RUN										
+-	+	 FN	-1 /	166 +	 -	FN	-2 /		FN	-3 /	168 +	
 	HN	F	SPL	SPLA	1	F	SPL	SPLA	F	SPL	SPLA	
	1		107.3	81.1	ļ	:	112.1	89.6	•	1113.9		
!	2	•	103.1	87.0	ļ	•	109.6	96.2	•	•	103.4	
!	3	210.0	98.4	87.5	!	•	108.4	99.8	270.0	•	1104.3	
ļ	4	280.0	94.6	86.0	ļ	•	105.0	98.4 100.4	•	4	109.8 111.4	
-	5 6	•	90.8	84.2 84.6	!		105.2 102.0	98.8	•	•	1111.4	
-	7	420.0	89.4	79.6	ŀ	560.0	97.1	90.0	•	•	1111.3	
-	8	490.0 560.0	82.8 77.3	79.0	!	640.0	97.1	95.6	•	•	111.5	
-	9	1	75.0	73.1	¦	720.0	95.6	93.0	•	•	1112.1	
1	10		71.7	69.8	i	800.0	92.1	91.3	•	•	1111.2	
	11	•	66.9	66.1	i	880.0	89.0	88.2	•	•	110.8	
	12	:	0.0	0.0	i	960.0	87.8	•	•	•	108.8	
:	13	:	0.0	0.0	i	1040.0	85.4	•	•	•	106.8	
•	14 j	980.0	0.0	0.0	•	1120.0	80.8			•	108.3	
	•	1050.0	0.0	0.0	•	1200.0	79.4	80.0	•	106.0	106.6	
İ	16 j	1120.0	j 0.0	0.0	İ	1280.0	79.5	80.1	1440.0	103.5	104.5	
Ì	17	1190.0	0.0	0.0		1360.0	77.5	78.1	1530.0	102.7	103.7	
1	18	1260.0	0.0	0.0		1440.0	74.3	75.3	1620.0	103.4	104.4	
	•	1330.0	0.0	0.0	•	1520.0	73.3		•		102.2	
1:	20	1400.0	0.0	0.0	•	1600.0	72.1	:	1800.0	97.5	98.7	
•	21	1470.0	0.0	0.0	•	1680.0	70.8	• •	1890.0	98.0	99.2	
	•	1540.0	0.0	:	•	1760.0	69.5		1980.0	97.8	99.0	
•		1610.0	0.0	•	•	1840.0	68.3		2070.0	95.0	96.2	
	•	1680.0	0.0	•	•	1920.0	67.9	:	2160.0	93.7	94.9	
•	•	1750.0	0.0	•	•	2000.0	65.7		2250.0	94.6	95.9	
•	•	11820.0	0.0	:		2080.0	65.4	: :	2340.0	91.9	93.2	
•	•	11890.0	0.0	0.0 0.0	•	2160.0 2240.0	66.6 65.7	67.8 67.0	2430.0	89.7	91.0 91.6	
•	28 29	1960.0 2030.0	0.0	0.0	•	2320.0	66.3	67.0 67.6	2520.0 2610.0	90.3 89.9	91.0	
•	•	2100.0	0.0	0.0 0.0	•	2400.0	65.9	67.0	[2700.0	87.9	89.2	
		2170.0	0.0	•	•	2480.0	65.3	66.6	2790.0	86.6	87.2 87.9	
•	•	2240.0	•						2880.0	•	88.3	
- 1		2310.0				•	•		2970.0	•		
•		2380.0	•						3060.0			
		2450.0	•			•	•		3150.0	-		
•	•	2520.0		:		•	•		3240.0	•	•	
•	•	2590.0	:	:	-	:	:	: :	3330.0		: :	
		2660.0			1	3040.0	63.6	64.8	3420.0	81.0	82.2	
		2730.0		0.0	•	•	•	,	3510.0	•	. ,	
		2800.0							3600.0			
									+ +			
+-									+ 			
-									+			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN										
+	 FN	-1 /	166 +	1	FN	-2 /	167 +	1	† FN	-3 /	 168
HN	F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA
1 1	•	109.2	83.0	į		115.2	92.7		•	115.9	96.8
	•	104.5	88.4	1	•	110.0	96.6	ļ	•	•	102.6
3	210.0	98.8	87.9		•	110.1	101.5		•	•	106.7
4	280.0	97.1	88.5	ł	•	107.4	100.8	l	360.0	•	109.1
5	350.0	92.0	85.4		•	104.3	99.5	l	•	•	111.1
6	420.0	86.5	81.7	1	•	101.9	98.7		•	:	108.8
7	490.0	83.0	79.8	Ì	560.0	100.1	96.9	İ	•	•	111.9
8	560.0	79.9	76.7	ļ	640.0	98.5	96.6	ĺ	•	•	110.6
9	630.0	76.9	75.0	ı	720.0	94.8	94.0		•	•	110.1
10	700.0	70.9	69.0	1	800.0	92.9	92.1	1	900.0	•	111.0
11	770.0	65.5	64.7	1	880.0	90.7	89.9	l	•	•	108.9
	840.0	0.0	0.0		960.0	86.7	86.7	l	•	•	108.3
13	910.0	0.0	0.0	1	1040.0	85.0	•	•	•	•	108.6
	980.0	0.0	0.0		1120.0	83.4	•	•	•	•	105.6
15	1050.0	0.0	0.0	ŧ	1200.0	79.7	•	•	•	104.9	105.5
16	1120.0	0.0	0.0	ŀ	1280.0	75.2	75.8		1440.0	104.1	105.1
17	1190.0	0.0	0.0	1	1360.0	75.2	75.8	l	1530.0	101.4	102.4
18	1260.0	0.0	0.0		1440.0	71.9	72.9		1620.0	99.7	100.7
19	1330.0	0.0	0.0		1520.0	68.2	69.2		1710.0	100.3	101.3
20	1400.0	0.0	0.0	1	1600.0	64.0	65.0	1	1800.0	98.8	100.0
21	1470.0	0.0	0.0	1	1680.0	62.8	63.8		1890.0	95.5	96.7
22	1540.0	0.0	0.0	1	1760.0	61.5	62.5		1980.0	95.2	96.4
23	1610.0	0.0	0.0	1	1840.0	60.0	61.2		2070.0	94.3	95.5
24	1680.0	0.0	0.0	İ	1920.0	57.3	58.5		2160.0	90.9	92.1
25	1750.0	0.0	0.0	1	2000.0	53.6	54.8		2250.0	91.6	92.9
26	1820.0	0.0	0.0	1	2080.0	0.0	0.0		2340.0	89.8	91.1
27	1890.0	0.0	0.0		2160.0	0.0	0.0		2430.0	89.2	90.5
28	1960.0	0.0	0.0		2240.0	0.0	0.0		2520.0	88.5	89.8
29	2030.0	0.0	0.0		2320.0	0.0	0.0		2610.0	88.3	89.6
30	2100.0	0.0	0.0		2400.0	0.0	0.0		2700.0	86.6	87.9
31	2170.0	0.0	0.0		2480.0	0.0	0.0	1	2790.0	85.0	86.3
32	2240.0	0.0	0.0		2560.0	0.0	0.0		2880.0	85.3	86.5
• .	2310.0	•			2640.0		•		2970.0	•	
34	2380.0	0.0			2720.0		•		3060.0	•	82.6
	2450.0				2800.0		•		3150.0		83.2
36	2520.0	0.0			2880.0		0.0		3240.0	81.1	82.3
37	2590.0	0.0	0.0	1	2960.0	0.0	•		3330.0	-	79.2
38	2660.0	0.0	0.0		3040.0	0.0	•		3420.0	•	80.0
	2730.0				3120.0		•		3510.0	-	
40	2800.0			•	3200.0		•		3600.0	-	76.9
++	+			•			-			-	++
+											
C		111.0					108.1		 		121.0
		•		. '		•	•			-	•

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 19.9 DEG)

1 70.0 110.3 84.1 80.0 117.2 94.7 90.0 117.5 91.2 140.0 105.1 89.0 160.0 111.3 97.9 180.0 111.7 10.3 1210.0 96.5 85.6 240.0 108.4 99.8 270.0 115.4 10.4 103.8 360.0 117.7 11.5 11.5 1350.0 92.8 86.2 440.0 110.4 103.8 360.0 117.7 11.5 1350.0 92.8 86.2 440.0 104.4 9100.1 1450.0 109.1 10.6 1420.0 87.0 82.2 480.0 98.4 95.2 540.0 111.7 10.7 11.5 10.5		DATA-POINT / RUN										
1	++	 FN	FN-1 / 1	166] FN	-2 /	167 ++	FN	-3 /	168		
2 140.0 105.1 89.0 160.0 111.3 97.9 180.0 111.7 10 3 210.0 96.5 85.6 240.0 108.4 99.8 270.0 115.4 10 4 280.0 95.7 87.1 320.0 110.4 103.8 360.0 117.7 11 5 350.0 92.8 86.2 440.0 104.9 100.1 450.0 109.1 10 6 420.0 87.0 82.2 480.0 98.4 95.2 540.0 111.7 10 7 490.0 80.8 77.6 560.0 99.4 96.2 630.0 112.4 11 8 560.0 77.9 74.7 640.0 99.4 96.2 630.0 112.4 11 8 560.0 77.5 70.6 720.0 92.6 91.8 810.0 108.3 10 9 630.0 72.5 70.6 720.0 92.6 91.8 810.0 108.3 10 11 770.0 65.2 64.4 880.0 87.2 86.4 990.0 106.9 10 11 770.0 65.2 64.4 880.0 87.2 86.4 990.0 106.3 10 12 840.0 52.3 51.5 960.0 82.7 82.7 1170.0 103.0 10 14 980.0 0.0 0.0 1120.0 77.2 77.2 1260.0 103.0 10 15 1050.0 0.0 0.0 11200.0 77.4 75.0 1440.0 98.9 9 17 1190.0 0.0 0.0 1280.0 74.4 75.0 1440.0 98.9 9 17 1190.0 0.0 0.0 1360.0 66.1 66.7 1530.0 97.0 9 18 1260.0 0.0 0.0 1360.0 66.1 66.7 1530.0 97.0 9 18 1260.0 0.0 0.0 1360.0 66.1 66.7 1530.0 97.0 9 19 1330.0 0.0 0.0 1680.0 57.1 58.1 1890.0 93.2 9 20 14400.0 0.0 0.0 1680.0 57.1 58.1 1890.0 93.2 9 21 1470.0 0.0 0.0 1680.0 57.1 58.1 1890.0 93.2 9 22 1540.0 0.0 0.0 1280.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.0 1230.0 0.0 0.	HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
3 210.0 96.5 85.6 240.0 108.4 99.8 270.0 115.4 10 4 280.0 95.7 87.1 320.0 110.4 103.8 360.0 117.7 11 5 350.0 92.8 86.2 4400.0 104.4 9100.1 450.0 1091.1 10 6 420.0 87.0 82.2 480.0 98.4 95.2 540.0 111.7 10 7 490.0 80.8 77.6 560.0 99.4 96.2 630.0 112.4 11 8 560.0 77.9 74.7 640.0 97.4 95.5 720.0 107.3 10 9 630.0 72.5 70.6 720.0 92.6 91.8 810.0 108.3 10 10 700.0 68.4 66.5 800.0 88.7 87.9 900.0 106.9 10 11 770.0 65.2 64.4 880.0 8.2 85.2 1080.0 103.9 10 12 840.0 52.3 51.5 960.0 82.7 82.7 1170.0 103.0 10 13 910.0 0.0 0.0 11040.0 82.7 82.7 1170.0 103.0 10 14 980.0 0.0 0.0 1120.0 77.2 77.2 11260.0 103.9 10 15 1050.0 0.0 0.0 11280.0 75.7 75.7 11350.0 99.7 10 16 1120.0 0.0 0.0 11260.0 75.1 75.7 11350.0 99.7 10 16 1120.0 0.0 0.0 11360.0 66.1 66.7 11530.0 97.0 99.1 17 11190.0 0.0 0.0 11440.0 65.3 66.3 11620.0 93.2 99.1 11400.0 0.0 0.0 11600.0 62.7 63.7 11800.0 93.2 99.1 11400.0 0.0 0.0 11600.0 62.7 63.7 11800.0 93.2 99.1 11400.0 0.0 0.0 11600.0 62.7 63.7 11800.0 93.2 99.1 11400.0 0.0 0.0 11600.0 62.7 63.7 11800.0 89.1 99.2 11400.0 0.0 0.0 11600.0 62.7 63.7 11800.0 89.1 99.2 11400.0 0.0 0.0 11600.0 62.7 63.7 1800.0 89.1 99.2 11400.0 0.0 0.0 11600.0 0.0 0.0 12500.0 87.4 89.1 99.2 11400.0 0.0 0.0 12600.0 0.0 12700.0 0.0 12700.0 89.2 99.2 12030.0 0.0 0.0 12600.0 0.0 0.0 12700.0 0.0 12700.0 89.2 99.2 12030.0 0.0 0.0 12600.0 0.0 0.0 12700.0 0.0 12700.0 77.5	1 1	•		•	•	•	• •	•	•	98.4		
4 280.0 95.7 87.1 320.0 110.4 103.8 360.0 117.7 11 5 350.0 92.8 86.2 400.0 104.9 100.1 450.0 109.1 10 6 420.0 87.0 82.2 480.0 98.4 95.2 540.0 111.7 10 7 490.0 80.8 77.6 560.0 99.4 95.2 630.0 112.4 11 8 560.0 77.9 74.7 640.0 97.4 95.5 720.0 107.3 10 9 630.0 72.5 70.6 720.0 92.6 91.8 810.0 108.3 10 10 700.0 68.4 66.5 800.0 88.7 87.9 900.0 106.3 10 11 770.0 65.2 64.4 880.0 87.2 86.4 990.0 106.3 10 11 770.0 65.2 64.4 880.0 87.2 86.4 990.0 106.3 10 12 840.0 52.3 51.5 960.0 85.2 85.2 1080.0 103.9 10 13 910.0 0.0 0.0 1040.0 82.7 82.7 1170.0 103.0 10 14 980.0 0.0 0.0 1200.0 75.1 75.7 1350.0 99.7 10 16 1120.0 0.0 0.0 1280.0 74.4 75.0 1440.0 98.9 99.1 17 11190.0 0.0 0.0 1360.0 66.1 66.7 1530.0 97.0 99.2 19 1330.0 0.0 0.0 1520.0 61.7 62.7 1710.0 93.2 99.2 10 1440.0 0.0 0.0 1600.0 65.3 66.3 166.0 95.2 99.2 19 1470.0 0.0 0.0 1760.0 62.7 63.7 1800.0 89.1 99.2 17 11470.0 0.0 0.0 1760.0 62.7 63.7 1800.0 89.1 99.2 17 11470.0 0.0 0.0 1280.0 57.1 58.1 11890.0 90.8 99.2 12 11470.0 0.0 0.0 1200.0 65.7 63.7 1800.0 89.1 99.2 17 1190.0 0.0 0.0 1200.0 65.7 63.7 1800.0 89.1 99.2 17 1190.0 0.0 0.0 1200.0 65.7 63.7 1800.0 89.1 99.2 17 1190.0 0.0 0.0 1200.0 0.0 0.0 1200.0 0.0 12070.0 89.2 99.2 12 1470.0 0.0 0.0 1200.0 0.0 0.0 1200.0 0.0 12	: : :	•		•	•	•	:	•	•	100.8		
5 350.0 92.8 86.2 400.0 104.9 100.1 450.0 109.1 10 6 420.0 87.0 82.2 480.0 98.4 95.2 540.0 111.7 11 17 11 18 560.0 77.9 74.7 640.0 97.4 96.2 630.0 112.4 11 18 560.0 77.9 74.7 640.0 97.4 95.5 720.0 107.3 10 9 630.0 72.5 70.6 720.0 92.6 91.8 810.0 108.3 10 10 700.0 68.4 66.5 800.0 88.7 87.9 900.0 106.9 10 11 770.0 65.2 64.4 880.0 87.2 86.4 990.0 106.3 10 11 770.0 65.2 64.4 880.0 87.2 86.4 990.0 106.3 10 12 840.0 52.3 51.5 960.0 85.2 85.2 11080.0 103.9 10 13 910.0 0.0 0.0 1120.0 77.2 77.2 1170.0 103.0 10 14 980.0 0.0 0.0 1120.0 77.2 77.2 11260.0 103.0 10 15 1050.0 0.0 0.0 1280.0 74.4 75.0 1140.0 98.9 9 17 11190.0 0.0 0.0 1360.0 66.1 66.7 1530.0 97.0 98.9 19 1330.0 0.0 0.0 1040.0 65.3 66.3 11620.0 95.2 99 19 11330.0 0.0 0.0 11520.0 61.7 62.7 1710.0 93.2 99 12 11470.0 0.0 0.0 1660.0 62.7 63.7 1880.0 93.2 99 12 11470.0 0.0 0.0 1660.0 62.7 63.7 1880.0 89.1 99 12 11470.0 0.0 0.0 1760.0 0.0 0.0 12700.0 87.4 88 1260.0 0.0 0.0 12800.0 57.1 58.1 1890.0 89.1 99 12 11470.0 0.0 0.0 12600.0 0.0 0.0 12240.0 0.0 0.0 12250.0 83.4 88 1260.0 0.0 0.0 0.0 12260.0 0.0 0.0 12260.0 87.4 88 1260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 87.4 88 1260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 87.4 88 1260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 87.4 88 1260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 87.4 88 1260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 0.0 0.0 12260.0 0.0 0.0 12260.0	: : :	•	•		•	•	• :	•	•	106.8		
6	• •	•	: :		•	•		•	•	112.9		
7 490.0 80.8 77.6 560.0 99.4 96.2 630.0 112.4 11.8 560.0 77.9 74.7 640.0 97.4 95.5 720.0 107.3 10.0 99.6 91.8 810.0 108.3 10.0 108.3 10.0 10.0 68.4 66.5 800.0 88.7 87.9 900.0 106.9 10.0 11 770.0 65.2 64.4 880.0 87.2 86.4 990.0 106.3 10.0 12.1 840.0 52.3 51.5 960.0 85.2 85.2 1080.0 103.9 10.0 13.0 13.0 19.0 10.0 0.0 0.0 1120.0 77.2 77.2 1170.0 103.0 10.0 14 980.0 0.0 0.0 1120.0 77.2 77.2 1260.0 103.0 10.0 15 1050.0 0.0 0.0 1280.0 74.4 75.0 1440.0 98.9 99.1 16 1120.0 0.0 0.0 1360.0 66.1 66.7 1530.0 97.0 99.7 10.0 18 1260.0 0.0 0.0 1360.0 66.1 66.7 1530.0 97.0 99.2 19 1330.0 0.0 0.0 1520.0 61.7 62.7 1710.0 93.2 99.2 11400.0 0.0 0.0 1680.0 57.1 58.1 1890.0 90.8 99.2 11400.0 0.0 0.0 1680.0 57.1 58.1 1890.0 90.8 99.2 11400.0 0.0 0.0 1760.0 0.0 0.0 12070.0 89.2 99.2 11400.0 0.0 0.0 1760.0 0.0 0.0 12070.0 89.2 99.2 11400.0 0.0 0.0 1760.0 0.0 0.0 12070.0 89.2 99.2 11750.0 0.0 0.0 12080.0 0.0 0.0 12250.0 83.4 88.2 125 1750.0 0.0 0.0 12260.0 0.0 0.0 12250.0 83.4 88.2 126 1820.0 0.0 0.0 12260.0 0.0 0.0 12250.0 83.4 88.2 126 1820.0 0.0 0.0 12260.0 0.0 0.0 12250.0 83.4 88.2 126 1820.0 0.0 0.0 12260.0 0.0 0.0 12250.0 83.4 88.2 126 1820.0 0.0 0.0 12260.0 0.0 0.0 12250.0 82.9 88.2 126 1820.0 0.0 0.0 12260.0 0.0 0.0 12250.0 82.9 88.2 126 1820.0 0.0 0.0 12260.0 0.0 0.0 12250.0 82.9 88.2 126 1820.0 0.0 0.0 12260.0 0.0 0.0 12250.0 82.9 88.2 126 1820.0 0.0 0.0 12260.0 0.0 0.0 12250.0 82.9 88.2 126 1200.0 0.0 0.0 12260.0 0.0 0.0 12250.0 82.9 88.2 12260.0 0.0 0.0 12260.0 0.0 0.0		•	:		•	•	: :	•	•	105.9		
8	•	•			•	•	•	•	•	108.5		
9 630.0 72.5 70.6 720.0 92.6 91.8 810.0 108.3 10 10 700.0 68.4 66.5 800.0 88.7 87.9 900.0 106.9 10 11 770.0 65.2 64.4 880.0 87.2 86.4 990.0 106.3 10 12 840.0 52.3 51.5 960.0 85.2 85.2 1080.0 103.9 10 13 910.0 0.0 0.0 1040.0 82.7 82.7 1170.0 103.0 10 13 910.0 0.0 0.0 1120.0 77.2 77.2 1260.0 103.0 10 15 1050.0 0.0 0.0 1260.0 75.1 75.7 1350.0 99.7 10 16 1120.0 0.0 0.0 1360.0 66.1 66.7 1530.0 97.0 99.1 17 1190.0 0.0 0.0 1360.0 66.1 66.7 1530.0 97.0 99.2 19 1330.0 0.0 0.0 1520.0 61.7 62.7 1710.0 93.2 99.2 19 1400.0 0.0 0.0 1680.0 57.1 58.1 1890.0 90.8 99.2 12 1470.0 0.0 0.0 1680.0 57.1 58.1 1890.0 90.8 99.2 12 11470.0 0.0 0.0 1760.0 0.0 0.0 1280.0 0.0 0.0 1280.0 62.7 63.7 1800.0 93.2 99.2 12 1880.0 0.0 0.0 1680.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 1280.0 89.2 99.3 128 1280.0 0.0 0.0 0.0 1280.0 0.0 0.0 12340.0 80.8 83.2 128 1960.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 0.0 12340.0 80.8 83.2 128 1960.0 0.0 0.0 1280.0 0.0 0.0 12340.0 80.8 83.2 128 1960.0 0.0 0.0 1280.0 0.0 0.0 12340.0 80.8 83.2 12240.0 0.0 0.0 1280.0 0.0 0.0 12340.0 80.8 83.2 12240.0 0.0 0.0 1280.0 0.0 0.0 12340.0 75.2 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3 76.3	: : :	•		•	•	•	•	•	•	110.5		
10		•			•	•	• .	•	•	106.5		
11	: :	•		•	•		•	•	•	107.5		
12	•	•	: .		•	•	•	•	•	106.9		
13		•	•		•	•		•	•	106.3		
14	•	•		,		•	•	•	•	103.9		
15		•	•	•	•	•	• •	•	•	103.6		
16		•		•	•	•		•	•	1103.6		
17		•		•	•	•	•	•	•	100.3		
18		•			•	•	•	•	•	99.9		
19		•			•	:	•	•	:	98.0 96.2		
20		:			:	•	: :	2	:	96.2		
21		•			•	•		•	:	94.4		
22		•			•	•		-	-	92.0		
23 1610.0		•	· •					***		90.3		
24		•		•	•			-	•	90.4		
25 1750.0 0.0 0.0 2000.0 0.0 0.0 2250.0 83.4 86 26 1820.0 0.0 0.0 2080.0 0.0 0.0 2340.0 86.0 87 27 1890.0 0.0 0.0 2160.0 0.0 0.0 2430.0 80.8 87 28 1960.0 0.0 0.0 2240.0 0.0 0.0 2520.0 82.9 87 29 2030.0 0.0 0.0 2320.0 0.0 0.0 2610.0 75.5 76 30 2100.0 0.0 0.0 24400.0 0.0 0.0 2700.0 79.6 88 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 78.7 86 31 2170.0 0.0 0.0 2560.0 0.0 0.0 2880.0 75.2 76 33 2310.0 0.0 0.0 2560.0 0.0 0.0 2970.0 75.0 76 34 2380.0 0.0 0.0 2880.0 0.0 0.0 3060.0 76.1 77 35 2450.0 0.0 0.0 2880.0 0.0 0.0 3150.0 69.8 77 37 2590.0 0.0 0.0 2880.0 0.0 0.0 3330.0 71.5 77 38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 65.9 67 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 69.2 76 40 2800.0 0.0 0.0 3200.0 0.0 0.0 36600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 0.0 36600.0 0.0 0.0 36600.0 0.0 0.0 32600.0 0.0 0.0 36600.0 0.0 0.0 36600.0 0.0 0.0 32600.0 0.0 0.0 36600.0 0.0 0.0 36600.0 0.0		•			•	:		•	•	88.6		
26 1820.0 0.0 0.0 2080.0 0.0 0.0 12340.0 86.0 87 1890.0 0.0 0.0 12080.0 0.0 0.0 12340.0 86.0 87 1890.0 0.0 0.0 12160.0 0.0 0.0 12430.0 80.8 83 28 1960.0 0.0 0.0 12240.0 0.0 0.0 12520.0 82.9 84 129 12030.0 0.0 0.0 12320.0 0.0 0.0 12610.0 75.5 76 30 12100.0 0.0 0.0 12400.0 0.0 0.0 12700.0 79.6 86 31 12170.0 0.0 0.0 12480.0 0.0 0.0 12790.0 78.7 86 32 12240.0 0.0 0.0 12560.0 0.0 0.0 12880.0 75.2 76 33 12310.0 0.0 0.0 12640.0 0.0 0.0 12970.0 75.0 76 34 12380.0 0.0 0.0 12720.0 0.0 0.0 13060.0 76.1 77 35 12450.0 0.0 0.0 12880.0 0.0 0.0 13150.0 69.8 77 36 12520.0 0.0 0.0 12880.0 0.0 0.0 13240.0 74.0 75 37 12590.0 0.0 0.0 12960.0 0.0 0.0 13330.0 71.5 73 38 12660.0 0.0 0.0 13040.0 0.0 0.0 13510.0 69.2 76 39 12730.0 0.0 0.0 13120.0 0.0 0.0 13510.0 69.2 76 40 12800.0 0.0 0.0 13200.0 0.0 0.0 13510.0 69.2 76 40 12800.0 0.0 0.0 13200.0 0.0 0.0 13600.0 0.0		•			•	•		•	•	84.7		
27 1890.0 0.0 0.0 2160.0 0.0 0.0 2430.0 80.8 83 28 1960.0 0.0 0.0 2240.0 0.0 0.0		•			•	•		•	•	87.3		
28 1960.0		•			•	•		5	•	82.1		
29 2030.0 0.0 0.0 2320.0 0.0 0.0 2610.0 75.5 76 30 2100.0 0.0 0.0 2400.0 0.0 0.0 2700.0 79.6 86 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 78.7 86 32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 75.2 76 33 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 75.0 76 34 2380.0 0.0 0.0 2720.0 0.0 0.0 3060.0 76.1 75 35 2450.0 0.0 0.0 2880.0 0.0 0.0 3150.0 69.8 75 36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 74.0 75 37 2590.0 0.0 0.0 2960.0 0.0 0.0 3330.0 71.5 75 38 2660.0 0.0 0.0 3040.0 0.0 0.0 3510.0 65.9 65 39 2730.0 0.0 0.0 31200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 32600.0 0.0 3600.0 0.0 32600.0 0.0 32600.0 0.0 3600.0 0.0 3600.0 0.0 3600.0 0.0 3600.0 0.0 3600.0 0.0 3600.0 0.0 3600.0 0.0 32600.0 0.0 32600.0 0.0 3600.0 0.0 3600.0 0.0 3600.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0		•	. ,			-		•	•	84.2		
30 2100.0 0.0 0.0 2400.0 0.0 0.0 2700.0 79.6 86 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 78.7 86 32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 75.2 76 33 2310.0 0.0 0.0 2640.0 0.0 0.0		•		•	•	•		•		76.8		
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32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 75.2 76 33 2310.0 0.0 0.0 2640.0 0.0 0.0	•	•	· ·		•			•	•	80.0		
33 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 75.0 76 34 2380.0 0.0 0.0 2720.0 0.0 0.0 3060.0 76.1 73 35 2450.0 0.0 0.0 2800.0 0.0 0.0 3150.0 69.8 73 36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 74.0 73 37 2590.0 0.0 0.0 2960.0 0.0 0.0 3330.0 71.5 73 38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 65.9 63 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 69.2 76 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0	! !	:	: :	:				:	:	:		
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35 2450.0 0.0 0.0 2800.0 0.0 0.0 3150.0 69.8 7 36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 74.0 75 37 2590.0 0.0 0.0 2960.0 0.0 0.0 3330.0 71.5 73 38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 65.9 65 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 69.2 76 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0		•		:	:					•		
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37 2590.0 0.0 0.0 2960.0 0.0 0.0 3330.0 71.5 73 38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 65.9 63 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 69.2 76 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0	: :		: :		•	0.0		•	•			
38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 65.9 67.0 0.0 39.0 0.0 0.0 3120.0 0.0 0.0 3510.0 69.2 70.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0		•		•	•	0.0	0.0	3330.0	71.5	72.7		
40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0				0.0	3040.0	0.0	0.0	3420.0	65.9	67.1		
	39	2730.0	.0 0.0	0.0	3120.0	0.0	0.0	3510.0	69.2	70.4		
++++++++												
OASPL 111.8 94.2 119.5 108.3 123.7 119												

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 19.9 DEG)

		DATA-POINT / RUN										
+.		 FN	-1 /		 -	•	-2 /		 	•	-3 /	 168
 -	HN	F	SPL				SPL	•		-	SPL	SPLA
į	1		110.5	:	į		117.7	95.2		•	117.4	98.3
ļ	2		103.5	•	ļ	•	109.8	96.4	l	180.0	•	102.7
Ţ		210.0	93.4	•	ļ	•	106.4	97.8	ĺ	270.0	•	105.2
-	4	280.0	93.8	85.2	1	320.0	106.6	100.0		360.0	•	107.3
!	5	350.0	88.3	81.7	!	400.0	99.4	94.6	İ	•	102.6	99.4
ļ	6	420.0	75.8		!	•	94.4	91.2		•	109.0	105.8
Ţ		490.0	73.7	•	ļ	!	95.3	92.1		•	104.4	102.5
-	8	560.0	73.5	70.3	}	640.0	88.7	, ,		•	96.6	95.8
!	9	630.0	65.4	63.5		720.0	72.2			•	102.5	101.7
ļ		700.0	0.0	:	!	:	83.8				97.2	97.2
Ţ		770.0	0.0	0.0	ļ	880.0	76.7	75.9		990.0	90.4	90.4
!		840.0	0.0	0.0	ļ	960.0	71.0			1080.0	95.2	95.2
Ţ	13	910.0	0.0	•	•	1040.0	70.0			1170.0	87.6	88.2
Ţ	14	980.0	0.0	:		1120.0	64.1			1260.0	87.5	88.1
		1050.0	0.0	0.0	•	1200.0	53.2	53.8		1350.0	87.2	87.8
1		1120.0	0.0	0.0	•	1280.0	0.0	0.0	١.	1440.0	82.7	83.7
Ţ		1190.0	0.0	•	•	1360.0	0.0	0.0		1530.0	80.8	81.8
		1260.0	0.0	•	•	1440.0	0.0	:		1620.0	78.7	79.7
ļ		1330.0	0.0	•	•	1520.0	0.0	0.0		1710.0	82.3	83.3
1		1400.0	0.0	•	•	1600.0	0.0	:		1800.0	70.0	71.2
ļ		11470.0	0.0	•	•	1680.0	0.0	•		1890.0	0.0	0.0
ļ		1540.0	0.0	•	•	1760.0	0.0			1980.0	0.0	0.0
!	•	1610.0 1680.0	0.0		•	1840.0	0.0			2070.0	0.0	0.0
-		1750.0	0.0	•	•	1920.0 2000.0	0.0	: :	- 3	2160.0	0.0	0.0
1		1820.0	0.0	•	•	2080.0	0.0	: :		2250.0 2340.0	0.0	0.0
ł		1890.0	0.0	0.0		2160.0	0.0	0.0	1	2430.0	0.0	0.0
ŀ		1960.0	0.0	0.0	•	2240.0	0.0	0.0		2520.0	0.0	0.0 0.0
1	,	2030.0	0.0	0.0		2320.0	0.0	0.0		2610.0	0.0	0.0
		2100.0	0.0			2400.0	0.0			2700.0	0.0	0.0
1		2170.0	0.0			2480.0	0.0			2790.0	0.0	0.0
l		2240.0	•			2560.0				2880.0		
ì	-	2310.0	•			2640.0				2970.0		:
i		2380.0	•			2720.0				3060.0		
		2450.0				2800.0				3150.0		· · · · · · · · · · · · · · · · · · ·
•		2520.0	•		•	2880.0		:	- :	3240.0		
•	•	2590.0	•	•	•	2960.0				3330.0		
		2660.0							- 3	3420.0		
-		2730.0	•	•						3510.0		•
		2800.0								3600.0		
		+										
+-			+	+	4-4		<u></u>	++	-1			++
1		ASPL										
+-			T		77	, _ -		r 1	7			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 19.9 DEG)

HN F	DATA-POINT / RUN										
HN F	•										
2 140.0 95.6 79.5 160.0 103.4 90.0 180.0 0.0 3 210.0 86.8 75.9 240.0 100.5 91.9 270.0 0.0 0.0 4 280.0 71.0 62.4 320.0 89.7 83.1 360.0 0.0 0.0 5 350.0 75.1 68.5 400.0 85.4 80.6 450.0 0.0 0.0 6 420.0 71.1 66.3 480.0 80.5 77.3 540.0 0.0 77 490.0 62.6 59.4 560.0 80.2 77.0 630.0 0.0 77 490.0 62.6 59.4 560.0 75.9 74.0 720.0 0.0 99 630.0 0.0 0.0 720.0 72.8 72.0 810.0 0.0 11 770.0 0.0 0.0 800.0 66.4 65.6 990.0 0.0 11 770.0 0.0 0.0 800.0 66.4 65.6 990.0 0.0 11 770.0 0.0 0.0 880.0 66.4 65.6 990.0 0.0 12 840.0 0.0 0.0 1200.0 0.0 0.0 133 910.0 0.0 0.0 1120.0 0.0 0.0 1120.0 0.0 11350.0 0.0 1440.0 0.0 0.0 1350.0 0.0 1440.0 0.0 0.0 1350.0 0.0 16 1120.0 0.0 0.0 1280.0 0.0 0.0 1350.0 0.0 16 1120.0 0.0 0.0 1280.0 0.0 0.0 1350.0 0.0 17 1190.0 0.0 0.0 11520.0 0.0 0.0 11530.0 0.0 12 11400.0 0.0 0.0 11520.0 0.0 0.0 11530.0 0.0 12 11400.0 0.0 0.0 11520.0 0.0 0.0 11800.0 0.0 12 11400.0 0.0 0.0 11520.0 0.0 0.0 11800.0 0.0 12 11400.0 0.0 0.0 11680.0 0.0 0.0 11800.0 0.0 12 11400.0 0.0 0.0 11680.0 0.0 0.0 11800.0 0.0 12 11400.0 0.0 0.0 11600.0 0.0 0.0 12300.0 0.0 12400.0 0.0 12500.0 0.0 12500.0 0.0 12500.0 0.0 12500.0 0.0 12500.0 0.0 12500.0 0.0 12500.0 0.0 12700.0 0.0 12700.0 0.0 12700.0 0.0 128 11960.0 0.0 0.0 12240.0 0.0 0.0 12250.0 0.0 12340.0 0.0 12	SPLA										
3	96.4										
4 280.0 71.0 62.4 320.0 89.7 83.1 360.0 0.0 5 350.0 75.1 68.5 400.0 85.4 80.6 450.0 0.0 6 420.0 71.1 66.3 480.0 80.5 77.3 540.0 0.0	0.0										
5 350.0 75.1 68.5 400.0 85.4 80.6 450.0 0.0 6 420.0 71.1 66.3 480.0 80.5 77.3 540.0 0.0 7 490.0 62.6 59.4 560.0 80.2 77.0 630.0 0.0 0.0 8 560.0 0.0 0.0 640.0 75.9 74.0 720.0 0.0 9 630.0 0.0 0.0 720.0 72.8 72.0 810.0 0.0 10 700.0 0.0 0.0 880.0 66.4 65.6 900.0 0.0 11 770.0 0.0 0.0 880.0 0.0 0.0 990.0 0.0 11 770.0 0.0 0.0 880.0 0.0 0.0 1080.0 0.0 12 840.0 0.0 0.0 1040.0 0.0 0.0 1170.0 0.0 1180.0 0.0 1180.0 0.0	0.0										
6	0.0										
7	0.0										
8	0.0										
9	0.0										
10 700.0 0.0 0.0 800.0 66.4 65.6 900.0 0.0 11 770.0 0.0 0.0 880.0 0.0 0.0 990.0 0.0 12 840.0 0.0 0.0 960.0 0.0 0.0 1080.0 0.0 13 910.0 0.0 0.0 1040.0 0.0 0.0 1170.0 0.0 14 980.0 0.0 0.0 1120.0 0.0 0.0 11260.0 0.0 0.0 15 1050.0 0.0 0.0 1280.0 0.0 0.0 1350.0 0.0 16 1120.0 0.0 0.0 1360.0 0.0 0.0 1350.0 0.0 17 1190.0 0.0 0.0 1360.0 0.0 0.0 1530.0 0.0 18 1260.0 0.0 0.0 1440.0 0.0 0.0 1530.0 0.0 0.0 18 1260.0 0.0 0.0 1520.0 0.0 0.0 17710.0 0.0 18 1330.0 0.0 0.0 1680.0 0.0 0.0 17710.0 0.0 20 1440.0 0.0 0.0 1680.0 0.0 0.0 1890.0 0.0 0.0 21 1470.0 0.0 0.0 1680.0 0.0 0.0 1890.0 0.0 0.0 22 1540.0 0.0 0.0 1760.0 0.0 0.0 1980.0 0.0 23 1610.0 0.0 0.0 1760.0 0.0 0.0 1290.0 0.0 24 1680.0 0.0 0.0 1920.0 0.0 0.0 25 1750.0 0.0 0.0 2280.0 0.0 0.0 2250.0 0.0 25 1750.0 0.0 0.0 2280.0 0.0 0.0 2250.0 0.0 28 1960.0 0.0 0.0 2240.0 0.0 0.0 2250.0 0.0 28 1960.0 0.0 0.0 2240.0 0.0 0.0 2250.0 0.0 28 1960.0 0.0 0.0 2240.0 0.0 0.0 2250.0 0.0 30 2100.0 0.0 0.0 2240.0 0.0 0.0 22700.0 0.0 31 2170.0 0.0 0.0 2240.0 0.0 0.0 22700.0 0.0 32 2240.0 0.0 0.0 22560.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0 22880.0 0.0 0.0	0.0										
11	0.0										
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17	0.0										
18	0.0										
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29 2030.0 0.0 0.0 2320.0 0.0 2610.0 0.0 30 2100.0 0.0 0.0 2400.0 0.0 2700.0 0.0 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 0.0 32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 0.0	0.0										
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	0.0										
	0.0										
33 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 0.0	0.0										
34 2380.0 0.0 0.0 2720.0 0.0 0.0 3060.0 0.0	0.0										
35 2450.0 0.0 0.0 2800.0 0.0 0.0 3150.0 0.0	0.0										
36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 0.0	0.0										
37 2590.0 0.0 0.0 2960.0 0.0 0.0 3330.0 0.0	0.0										
38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 0.0	0.0										
39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0	0.0										
40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0	0.0										
++++++											
OACDI 108 2 8/4 6 1 111/4 2 96 2 1 1115 5											
OASPL 108.2 84.6 114.2 96.3 115.5											

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 19.9 DEG)

	+	DATA-POINT / RUN										
.	 FN	-1 /	166	FN	-2 /	167 ++	FN	-3 /	 168 ++			
HN	F	SPL	•	F	SPL	SPLA	F	, SPL	SPLA			
•	70.0	105.4	79.2	80.0	111.6		:	110.0	90.9			
	140.0	103.4		160.0	108.5		•	•	101.5			
: .	210.0	98.9	!	240.0	107.9	99.3	•	112.3	103.7			
:	280.0	94.6	86.0	320.0	104.9	98.3	360.0	112.0	107.2			
5	350.0	90.0	83.4	400.0	102.9	98.1	450.0	111.9	108.7			
6	420.0	86.2	81.4	480.0	100.1	96.9	•	1111.7	108.5			
7	490.0	82.2	79.0	560.0	97.9	94.7	•	1111.4	109.5			
8	560.0	77.9	74.7	640.0	95.8	93.9	•	110.3	109.5			
•	630.0	74.6	72.7	720.0	94.0	93.2 90.4	•	•	108.8 107.5			
10	700.0	71.2	69.3 65.1	800.0	91.2	90.4 87.5	•	•	107.5			
11 12	770.0 840.0	65.9	0.0	880.0 960.0	85.6	87.5 85.6	•	•	107.3			
12		0.0	0.0	11040.0	82.9	. ,	•	•	105.6			
1 14	980.0	0.0	0.0	11120.0	80.8	•	•	•	104.0			
•	11050.0	0.0		1200.0	77.3		•	1	103.2			
	11120.0	0.0	•	11280.0	75.7	•	:	•	101.9			
	11120.0	0.0	:	11360.0	71.6		1530.0	•	100.2			
•	1260.0	0.0	•	11440.0	70.0	:	1620.0	98.2	99.2			
	1200.0	0.0	:	11520.0	66.1	:	1710.0	96.7	97.7			
	11400.0	0.0	0.0	1600.0	61.2	62.2	1800.0	95.6	96.8			
•	11470.0	0.0	•	11680.0	0.0	:	1890.0	94.7	95.9			
1 22	1540.0	0.0	•	1760.0	0.0	• •	1980.0	92.7	93.9			
1 23	1610.0	0.0	r	1840.0	0.0	0.0	2070.0	91.8	93.0			
	1680.0	0.0	•	1920.0	0.0	: :	2160.0	90.0	91.2			
	1750.0	0.0	•	2000.0	0.0		2250.0	87.9	89.2			
•	1820.0	0.0	•	2080.0	0.0		2340.0	87.3	88.6			
•	1890.0	0.0	•	2160.0	0.0		2430.0	86.0	87.3			
•	1960.0	0.0		112240.0	0.0	0.0	2520.0	84.6	85.9			
•	[2030.0	0.0	-	2320.0	0.0	j 0.0 j	2610.0	84.2	85.5			
30	2100.0	0.0	0.0	1 2400.0	0.0	0.0	2700.0	83.6	84.9			
31	2170.0	0.0	0.0	1 2480.0	0.0		2790.0	81.2	82.5			
32	1 2240.0	0.0	0.0	[[2560.0	0.0		2880.0		82.7			
	2310.0	0.0		[[2640.0	0.0	0.0	2970.0	80.0	81.2			
34	2380.0	0.0	0.0	2720.0	0.0	•	3060.0	•	80.3			
	2450.0	0.0	0.0	[[2800.0	0.0	•	3150.0	:	: :			
36	2520.0	0.0	0.0	2880.0	0.0		3240.0	•	1			
37	2590.0	0.0		[[2960.0	0.0	•	3330.0	•	76.8			
	2660.0	0.0	•	3040.0	0.0		3420.0		!			
•	2730.0	•		[[3120.0			3510.0		72.9			
	2800.0			3200.0			3600.0		73.0			
+	++								++			
+				++								
	DASPL	108.4				106.1			118.9			
+		T	r - + ·	TT	T	,	,	,	,			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

	+				DATA-	POINT /	RUN			
+	 ++	FN	-1 /	166 +	FN	-2 /	167	FN	-3 / +	168
HN	F	,	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1	, . 70	0.0	106.2	, 80.0	80.0	1113.4	90.9	90.0	1113.4	94.3
2	140	0.0	102.8	86.7	160.0	107.8	94.4	180.0	108.7	97.8
3	210	0.0	92.5	81.6	240.0	106.4	97.8	270.0	115.4	106.8
4	1 280	0.0	97.0	88.4	320.0	107.3	100.7	360.0	112.9	108.1
5	350	0.0	91.8	85.2	400.0	100.3	95.5	450.0	110.1	106 9
6	420	0.0	83.2	78.4	480.0	99.6	96.4	540.0	112.9	109.7
7	490		79.3	76.1	560.0	99.9	96.7	630.0	109.0	107.1
8	560	0.0	[80.1	76.9	640.0	94.8	92.9	720.0	109.1	108.3
9	630		75.2	73.3	720.0	90.0	89.2	810.0	110.5	109.7
10	700		68.1	66.2	0.008	91.9	91.1	900.0	105.3	105.3
11	770		0.0	0.0	880.0	87.1	86.3	990.0	106.4	106.4
12	840		0.0	0.0	960.0	82.4	82.4	1080.0	106.6	106.6
13	910		0.0	0.0	1040.0	84.3	84.3	1170.0	•	104.9
1 14	980		0.0	0.0	1120.0	79.3	•	1260.0	,	102.6
15	1050		0.0		1200.0	77.9	•	1350.0	•	103.8
16	1120		0.0		1280.0	73.4		1440.0	101.3	102.3
	11190		0.0		1360.0	70.9		1530.0	97.7	98.7
18	1260		0.0		1440.0	69.9	:	11620.0	99.1	100.1
1 19	11330		0.0		1520.0	64.1		1710.0	96.2	97.2
20	1400		0.0	:	1600.0	61.6	62.6	[[1800.0	95.0	96.2
21	11470		0.0	: :	1680.0	0.0	0.0	1890.0	95.5	96.7
22	1540		0.0		1760.0	0.0	•	1980.0	91.2	92.4
23	1610		0.0		1840.0	0.0	1	2070.0	92.1	93.3
24	111680		0.0		1920.0	0.0		2160.0	92.6	93.8
25	1750		0.0		2000.0	0.0	0.0	2250.0	82.1	83.4
26	1820 11800		0.0		2080.0	0.0	•	2340.0 2430.0	89 9 87 0	51.2 58.3
27	11890		0.0		2160.0	0.0	•	2430.0 2520.0	1	
28 29	1960 2030		0.0		2240.0	0.0	•	2520.0 2610.0	65 7 81	500
1 30	2030		0.0 0.0		2320.0	0.0	•		1 C	
30	2100 2170		0.0		12400.0 12480.0	0.0 0.0	•	2700.0 2790.0	. 4	
	2170 2240	_	0.0	:	2560.0	0.0		[[2880.0	1 B.	- 1
•	2240		0.0		2640.0	0.0	:	2000.0 2970.0		
	2310		0.0		12720.0	0.0	•	30e0.0		
•	2350 2450		0.0		2800.0	0.0	1	3150 0		
•	112520		0.0		2880.0	0.0		3176 3240.0		80.6
•	2520		0.0	:	2960.0	•		3330.0	,	
•	2660			,	3040.0	•		3420.0		
•	2000 2730		:		3120.0	•	•	3510.0		
•	1 1 2 8 0 0				3200.0			3600.0		
				,	•	•		++	•	•
+						+				
•	DASPL				1					118.6
+			+	++	+	+	+	++	+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 23.7 DEG)

		 			-	DATA-1	POINT /	RUN	-			-
+-		 FN	-4 /	169 +		FN	-5 /	170 +		[FN	-6 / +	171 ++
 	HN	F	SPL	SPLA		, F	SPL	SPLA	İ	F +	SPL	SPLA
İ	1	:	101.7	•	į		105.9		ļ	•	109.0	86.5
ļ	2	120.0	90.7	74.6	ļ	140.0	98.0	81.9	ļ	•	106.2	92.8
!	3	180.0	82.7	71.8	1	210.0	94.7	83.8	ļ	•	104.5	95.9
-	4	240.0	75.1	66.5	1	280.0	90.0	81.4	!	•	100.5	93.9
-	5	300.0	76.1	69.5	!	350.0	84.1	77.5	ļ	400.0	99.3	94.5
1	6	360.0	59.4	54.6	1	420.0	79.7	•	ļ	•	94.4	91.2
1	7 8	420.0	0.0	0.0	Ì	!	76.5 62.6		 	:	90.3 87.7	87.1 85.8
		480.0 540.0	0.0	0.0	1	:	0.0	0.0	•	•	86.6	85.8 85.8
1		540.0 600.0	0.0	0.0	1	700.0	0.0	-	1	:	76.0	03.6
•		660.0	0.0	0.0	1	770.0	0.0		i	:	80.0	79.2
•	12	720.0	0.0	0.0	i	840.0	0.0	0.0	i	960.0	74.5	74.5
•	13	780.0	0.0	0.0	1	910.0	0.0	•	i	1040.0	72.1	72.1
•	14	840.0	0.0	0.0	i	980.0	0.0		7	1120.0	67.7	67.7
•	15	900.0	0.0	0.0	i	1050.0	0.0	•	•	1200.0	60.1	60.7
•	16	960.0	0.0	0.0	•	1120.0	0.0	•	•	1280.0	0.0	0.0
•		1020.0	0.0	0.0		1190.0	0.0	-	•	1360.0	0.0	0.0
i	18	1080.0	0.0		i	1260.0	0.0	•	•	1440.0	0.0	0.0
į	19 İ	1140.0	0.0	0.0	Í	1330.0	0.0	0.0	İ	1520.0	0.0	0.0
1 :	20	1200.0	0.0	0.0	Ì	1400.0	0.0	0.0	ĺ	1600.0	0.0	0.0
1 :	21	1260.0	0.0	0.0		1470.0	0.0	0.0		1680.0	0.0	0.0
:	22	1320.0	0.0	0.0	1	1540.0	0.0	0.0	I	1760.0	0.0	0.0
1:	23	1380.0	0.0	0.0		1610.0	0.0	0.0		1840.0	0.0	0.0
:	24	1440.0	0.0	0.0	l	1680.0	0.0	0.0	ŀ	1920.0	0.0	0.0
1:		1500.0	0.0	0.0	İ	1750.0	0.0	0.0		2000.0	0.0	0.0
1:		1560.0	0.0	0.0	•	1820.0	0.0	0.0		2080.0	0.0	0.0
•		1620.0	0.0	0.0		1890.0	0.0	0.0		2160.0	0.0	0.0
•		1680.0	0.0	0.0	•	1960.0	0.0	•		•	0.0	0.0
•		1740.0	0.0	0.0	•	2030.0	0.0	0.0	:	2320.0	0.0	0.0
•		1800.0	0.0	0.0	•	2100.0	0.0	0.0	ļ	1	0.0	0.0
•	•	11860.0	0.0	•	•	2170.0	0.0	•	•	2480.0	0.0	0.0
		11920.0				2240.0				2560.0		0.0
		1980.0				2310.0	•		•	2640.0		
		2040.0			- 1	2380.0		•	•	2720.0		0.0
•		2100.0	:			2450.0 2520.0			:	2800.0		0.0
•		2160.0 2220.0	•			$\begin{bmatrix} 2520.0 \\ 2590.0 \end{bmatrix}$		•	•	2880.0 2960.0		0.0 0.0
		i	0.0	•	•	2660.0		•	•	3040.0		0.0
		2340.0	•	•		2730.0				3120.0		0.0
•		2400.0				2800.0		•	•	3200.0		
		+										
1		ASPL										
+-			+	+	+-	·	···	+	-	+	- -	+ -

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 23.7 DEG)

	•	+ 			-	DATA-	POINT /	-	RUN	-			
+	-+-	 FN	-4 /	169 +	1+		-5 / +	1		 -	FN	-6 / +	171 ++
HN	1	F	SPL	SPLA	1	F	SPL	1	SPLA	•	•	SPL	SPLA
1 1			103.6	14	1	:	109.0	İ	82.8		•	1110.6	88.1
2	1	120.0	97.6	81.5	1	140.0	104.1	ļ	88.0		•	110.6	97.2
4	1	180.0	92.1 84.4	81.2 75.8	1	210.0	100.7	1	89.8		•	107.9	99.3
5	ł	300.0	78.4	71.8	ŀ	280.0 350.0	95.8	1	87.2 84.5		•	104.5 103.7	97.9
1 6	i	:	71.9	67.1	i	420.0	87.9	1	83.1	i I I	:	103.7	98.9 99.5
1 7	i	:	67.8	63.0	l	490.0	83.9	1	80.7		560.0	99.9	96.7
8	i		53.6	50.4	ï	560.0	80.4	1	77.2		640.0	96.3	94.4
9	i		0.0	0.0	i	: .	72.0	ŀ	70.1		720.0	93.5	92.7
10	i	:		0.0	i	:	67.4	i	65.5		800.0	91.6	90.8
11	i		0.0		i	i 	69.0	i		ľ		90.9	90.1
1 12	i	:	0.0		i	840.0	60.0	i	;	i		86.5	86.5
13	İ	:	0.0	0.0	İ	910.0	0.0	i			1040.0	83.5	83.5
14	ĺ	840.0	0.0	0.0	Ĺ	980.0	0.0	į	0.0	ı	1120.0	81.5	j 81.5 j
15	1	900.0	0.0	0.0	1	1050.0	0.0	İ	0.0		1200.0	79.2	79.8
16	1	960.0	0.0	0.0	1	1120.0	0.0	1	0.0	١	1280.0	76.8	77.4
17	•	1020.0	0.0			1190.0	0.0	1	0.0	1	1360.0	71.6	72.2
18	•	1080.0	0.0	•	•	1260.0	0.0		0.0		1440.0	68.8	69.8
19	•	1140.0	0.0	•	•	1330.0	0.0				1520.0	68.2	69.2
20		1200.0	0.0	•	•	1400.0	0.0	1		•	1600.0	65.6	66.6
21		1260.0	0.0	•	•	1470.0	0.0	ļ			1680.0	60.8	61.8
22		1320.0	0.0	-	•	1540.0	0.0	ļ			1760.0		0.0
23	•	1380.0	0.0	•	•	1610.0	0.0	!			1840.0	0.0	0.0
24	•	1440.0	0.0	•	•	1680.0	0.0	ļ	•		1920.0	0.0	0.0
•	•	1500.0	0.0	-	•	1750.0	0.0	ļ	•	•	2000.0		0.0
26		1560.0 1620.0	0.0		•	1820.0	0.0		•	•	2080.0	•	0.0
28		1680.0	0.0 0.0		•	1890.0 1960.0	0.0 0.0	!	•		2160.0 2240.0	0.0	0.0
29		1740.0	0.0	0.0	•	2030.0	0.0	1			2320.0	0.0	0.0 0.0
•		1800.0	0.0	•	•	2100.0	0.0	1			2400.0	0.0	0.0
•		1860.0	0.0			2170.0	0.0	ŀ			2480.0	0.0	0.0
•		1920.0				2240.0		i	•	٠,	2560.0		
	- : :	1980.0				2310.0		:			2640.0		
•		2040.0				2380.0		:		•	2720.0		: :
-		2100.0				2450.0		•			2800.0	-	
•		2160.0			П	2520.0	0.0		-		2880.0		0.0
•		2220.0				2590.0			0.0	1	2960.0	0.0	0.0
•						2660.0		•			3040.0		0.0
					•	2730.0					3120.0		0.0
		2400.0				2800.0							
+					+-1		·	+ -	+	+			+
 +	O.A	SPL	104.9	85.9		 	110.9 	+-	94.7	+		115.8	107.0

F - FREQUENCY HZ

KEESSE OVOTOVAL 1909/0721 OVOTOVA VIJALAGASE ISTRALAGASE VALASASE ISTRALAGASE VALAGASE VALAGASE VALAGASES INTO

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 23.7 DEG)

3 4	120.0 180.0 240.0 300.0	SPL 105.3	+	•	+	+	+	•	-6 / :	171
1 2 3 4	60.0 120.0 180.0 240.0 300.0	105.3	-	•					FN-6 / 171 	
2	120.0 180.0 240.0 300.0		•	+-	<u>r</u> }	SPL +	SPLA	F	SPL	SPLA
3 4 2 5 6 6 6 6 6 6	180.0 240.0 300.0		•	İ	•	110.7	84.5	•	113.3	: :
4	240.0 300.0	98.6	82.5	ļ	140.0	106.5	90.4	•	1111.3	97.9
5 6 6 7 6 7 6 7	300.0	92.0	81.1	!	210.0	102.0	91.1	•	•	101.9
6	•	85.8	77.2	,	280.0	97.2	88.6	•	•	100.1
7 6 8 6 9 10 11 12 13 14 15 16 17 16 17 18 10 19 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12		81.9	75.3	ļ	350.0	94.4	87.8	•	•	102.6
8 9 1 1 1 1 1 1 1 1	360.0	74.3	69.5	!	420.0	91.0		•	•	100.8
9 1 10 6 11 6 12 1 13 1 14 6 15 6 16 6 17 16 18 16 19 1 20 12	420.0	72.3	67.5	1	490.0	86.6		1	99.8	96.6
10 6 11 12 13 14 15 16 17 16 17 18 19 11 120 120	480.0	68.1	64.9	1	560.0	79.2	, ,	640.0	99.8	97.9
11	540.0	59.0	55.8	1	630.0	79.3		720.0	•	96.8
12 13 14 6 15 6 16 9 17 16 18 10 19 1	600.0	0.0			•	72.3		800.0	94.6	93.8
13 14 6 15 9 16 9 17 10 18 10 19 11 20 12	660.0	0.0			•	70.3	69.5	880.0 960.0	92.3	91.5 90.6
14 6 15 16 17 10 11 11 12 12 13 13	720.0	0.0		!	840.0	66.5	65.7 60.7		90.6	88.4
15 9 16 9 17 18 10 19 11 12 12 12 12 13 14 15	780.0	0.0	0.0	!	910.0	60.7 62.4		1040.0 1120.0	88.4 83.1	83.1
16 9 17 10 18 10 19 11 20 12	840.0 900.0	0.0 0.0	0.0 0.0	i	980.0 1050.0	51.4		1200.0	82.4	83.1 83.0
17 10 18 10 19 11 20 12	960.0	0.0	0.0	•	1120.0	0.0		1280.0	81.0	81.6
18 10 19 11 20 1		0.0	0.0		1120.0	0.0		1360.0	77.7	78.3
19 1 20 1	080.0	0.0		•	1260.0	0.0	:	1440.0	72.2	73.2
20 12	140.0	0.0		•	1330.0	0.0		1520.0	71.1	72.1
	200.0	0.0		,	1400.0	0.0		1600.0	66.3	67.3
21 13	260.0	0.0		•	1470.0	0.0		1680.0	66.5	67.5
	320.0	0.0			1540.0	0.0	, ,	1760.0	59.1	60.1
	380.0	0.0		•	1610.0	0.0		1840.0	0.0	0.0
	440.0	0.0			1680.0	0.0		1920.0	0.0	0.0
	500.0	0.0		•	1750.0	0.0		2000.0	0.0	0.0
	560.0	0.0		•	1820.0	0.0		2080.0	0.0	0.0
	620.0	0.0	0.0		1890.0	0.0		2160.0	j 0.0 j	0.0
	680.0	0.0	0.0	•	1960.0	0.0		2240.0	i 0.0 i	0.0
	740.0	0.0	0.0		2030.0	0.0		2320.0	i 0.0 i	0.0
	800.0	0.0	0.0		2100.0	0.0	0.0	2400.0	0.0	0.0
	860.0	0.0		, ,	2170.0	0.0		2480.0	i 0.0 i	0.0
	.920.0				2240.0			2560.0	0.0	0.0
1 1	980.0				2310.0			2640.0		
	040.0 j				2380.0			2720.0		
	100.0 j				2450.0			2800.0	0.0	0.0
•	160.0				2520.0		0.0	2880.0	0.0	0.0
37 22	220.0	0.0	0.0	1	2590.0	0.0	0.0	2960.0	0.0	0.0
38 2	280.0	0.0	0.0	$ \cdot $	2660.0			3040.0		0.0
, , ,	2/0 0 1	0.0			2730.0			3120.0	•	0.0
	•		0.0		2800.0	0.0	0.0	3200.0	[0.0]	0.0
	400.0									
OASI	400.0			+	· 		-	+	+	·

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 23.7 DEG)

	+			 - ΔΤΔΠ	POINT /	DIIN			
				DATA	FOINT /	KON			
+	FN FN	I-4 /	169 +	FN	-5 / +	170	FN	-6 / +	171 +
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1	60.0	106.8	80.6	70.0	112.4	86.2	80.0	116.3	93.8
2	120.0	99.6	83.5	140.0	108.2	92.1	160.0	111.6	98.2
3	180.0	92.8	81.9	210.0	102.1	91.2	240.0	112.1	103.5
4	11 240.0	85.5	76.9	280.0	101.0	92.4	320.0	109.1	102.5
5	300.0	82.9	76.3	350.0	93.3	86.7	400.0	105.8	101.0
16	360.0	74.0	69.2	420.0	92.2	87.4	480.0	103.9	100.7
7	420.0	59.9	55.1	490.0	83.8	80.6	560.0	102.3	99.1
8	480.0	0.0	0.0	560.0	83.3	80.1	640.0	99.7	97.8
9	540.0	0.0	0.0	630.0	76.7	74.8	720.0	96.7	95.9
10	600.0	0.0	0.0	700.0	74.4	72.5	800.0	94.9	94.1
11	660.0	0.0	0.0	770.0	62.9	62.1	880.0	92.2	91.4
12	1 720.0	0.0	0.0	840.0	0.0	0.0	960.0	88.9	88.9
13	780.0	0.0	0.0	910.0	0.0	• •	1040.0	87.6	87.6
14	840.0	0.0	0.0	980.0	0.0		1120.0	85.0	85.0
15]] 900.0	0.0	0.0	1050.0	0.0	•	1200.0	81.7	82.3
16	960.0	0.0		1120.0	0.0		1280.0	77.9	78.5
17	1020.0	0.0	•	1190.0	0.0	•	1360.0	77.5	78.1
18	1080.0	0.0	•	1260.0	0.0		1440.0	72.7	73.7
:	1140.0	0.0	•	1330.0	0.0		1520.0	70.0	71.0
	11200.0	0.0	•	1400.0	0.0	•	1600.0	64.0	65.0
	[[1260.0	0.0	•	1470.0	0.0	•	1680.0	0.0	0.0
22	1320.0	0.0	1	1540.0	0.0	:	1760.0	0.0	0.0
23	1380.0	0.0	•	1610.0	0.0	•	1840.0	0.0	0.0
24	1440.0	0.0	:	1680.0	0.0	: :	1920.0	0.0	0.0
25	1500.0	0.0		1750.0	0.0	0.0	2000.0	0.0	0.0
26	11560.0	0.0	•	1820.0	0.0	•	2080.0	0.0	0.0
27	1620.0	0.0	•	1890.0	0.0		2160.0	0.0	0.0
28	11680.0	0.0	•	1960.0	0.0	: :	2240.0	0.0	0.0
	1740.0	0.0	•	2030.0	0.0	0.0	2320.0	0.0	0.0
	1800.0	0.0	•	2100.0	0.0	0.0	2400.0	0.0	0.0
•	1860.0	0.0		2170.0	0.0		2480.0	0.0	0.0
	1920.0	•		2240.0	0.0		2560.0		: :
:	11980.0		:	2310.0	0.0		12640.0		!!!
	112040.0	1		12380.0	0.0		12720.0	2	:
•	2100.0			12450.0	0.0		2800.0 2880.0		: :
1	2160.0		:	12520.0	0.0		12960.0		
•	2220.0 2280.0	•		2590.0 2660.0	0.0		3040.0	-	
•	[2340.0	•		2730.0					: :
•	1 2 4 0 0 . 0			2800.0					, ,
+	 ++	+	+	+	·	+	+	+	+
				-+ 					
				 - +					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 23.7 DEG)

FN-4						-	DATA-1	POINT /	RUN	-			+
HN F	+		 FN	-4 /	169 +	1	FN	-5 /			•	-6 / +	171 ++
2 120.0 100.5 84.4 140.0 109.9 93.8 160.0 112.8 99.4 3 180.0 90.5 79.6 210.0 1100.3 89.4 240.0 110.1 1101.5 4 240.0 81.6 73.0 280.0 99.6 91.0 320.0 110.1 1101.5 5 300.0 77.9 71.3 350.0 98.1 91.5 400.0 106.7 101.9 6 360.0 75.3 70.5 420.0 87.1 82.3 480.0 99.9 99.6 7 7 420.0 72.6 67.8 490.0 84.5 81.3 1560.0 101.0 97.8 8 480.0 63.4 60.2 560.0 79.7 76.5 640.0 100.0 98.1 99.5 94.2 93.4 10 160.0 0.0 0.0 630.0 77.6 75.7 720.0 94.2 93.4 10 1600.0 0.0 0.0 770.0 68.6 66.7 800.0 89.8 89.0 11 660.0 0.0 0.0 770.0 68.6 66.7 800.0 89.8 89.0 11 660.0 0.0 0.0 770.0 68.6 66.7 800.0 89.8 89.0 11 660.0 0.0 0.0 770.0 64.4 63.6 960.0 87.8 87.8 13 780.0 0.0 0.0 840.0 64.4 63.6 960.0 87.8 88.1 87.3 12 720.0 0.0 0.0 980.0 0.0 0.0 1120.0 85.2 85.2 14 840.0 0.0 0.0 1120.0 0.0 0.0 1120.0 0.0 0.0 1120.0 77.5 77.5 15 900.0 0.0 0.0 11200.0 0.0 0.0 11200.0 0.0 0.	; -	HN		SPL	SPLA		F +	SPL	•		-	SPL	SPLA
3 180.0 90.5 79.6 210.0 100.3 89.4 240.0 110.1 101.5 4 240.0 81.6 73.0 280.0 99.6 91.0 320.0 112.3 105.7 5 300.0 77.9 71.3 350.0 98.1 91.5 400.0 1106.7 101.9 6 360.0 75.3 70.5 420.0 87.1 82.3 480.0 99.9 96.7 7	į		•	•	-	İ			•	:	•	-	•
4	ł			•	•	ļ	•	•	:	:	•		
5 300.0 77.9 71.3 350.0 98.1 91.5 400.0 106.7 101.9 6 360.0 75.3 70.5 420.0 87.1 82.3 480.0 99.9 96.7 7 420.0 72.6 67.8 490.0 84.5 81.3 560.0 101.0 97.8 8 480.0 63.4 60.2 560.0 79.7 76.5 640.0 100.0 98.1 9 540.0 0.0 0.0 630.0 77.6 75.7 720.0 94.2 93.4 10 660.0 0.0 0.0 770.0 68.6 66.7 800.0 89.8 89.0 11	!		•	•	•	ļ	•	•	•	:	•	•	
6 360.0 75.3 70.5 420.0 87.1 82.3 480.0 99.9 96.7 7 420.0 72.6 67.8 490.0 84.5 81.3 560.0 101.0 97.8 8 480.0 63.4 60.2 560.0 79.7 76.5 640.0 100.0 98.1 9 540.0 0.0 0.0 630.0 77.6 75.7 720.0 94.2 93.4 10 600.0 0.0 0.0 770.0 68.6 66.7 800.0 89.8 89.0 11 660.0 0.0 0.0 770.0 71.2 70.4 880.0 88.8 89.0 11 660.0 0.0 0.0 840.0 64.4 63.6 960.0 87.8 87.8 13 780.0 0.0 0.0 840.0 64.4 63.6 960.0 87.8 87.8 13 780.0 0.0 0.0 980.0 0.0 0.0 1120.0 77.5 7	-		•	•	•	1	•	•	•	:	•	•	
7	l			•	•	1	•	•	*	:	•	•	•
8	1			•	•		•	•	:	:	•	•	•
9 540.0 0.0 0.0 630.0 77.6 75.7 720.0 94.2 93.4 10 600.0 0.0 0.0 700.0 68.6 66.7 800.0 89.8 89.0 11 660.0 0.0 0.0 770.0 71.2 70.4 880.0 89.8 89.0 12 720.0 0.0 0.0 840.0 64.4 63.6 960.0 87.8 87.8 13 780.0 0.0 0.0 980.0 0.0 0.0 1120.0 77.5 77.5 14 840.0 0.0 0.0 980.0 0.0 0.0 1120.0 77.5 77.5 15 900.0 0.0 0.0 1050.0 0.0 0.0 1120.0 77.5 77.5 16 960.0 0.0 0.0 1120.0 0.0 0.0 1280.0 77.0 77.6 17 1020.0 0.0 0.0 1120.0 0.0 0.0 1360.0 68.8 69.4 18 1080.0 0.0 0.0 1120.0 0.0 0.0 1360.0 68.8 69.4 18 1080.0 0.0 0.0 11400.0 0.0 0.0 1520.0 0.0 0.0 20 1200.0 0.0 0.0 14400.0 0.0 0.0 1520.0 0.0 0.0 21 1260.0 0.0 0.0 14400.0 0.0 0.0 1680.0 0.0 0.0 22 1320.0 0.0 0.0 1640.0 0.0 0.0 1760.0 0.0 0.0 23 1380.0 0.0 0.0 1640.0 0.0 0.0 1760.0 0.0 0.0 24 1440.0 0.0 0.0 1680.0 0.0 0.0 1920.0 0.0 0.0 25 1500.0 0.0 0.0 1820.0 0.0 0.0 1220.0 0.0 0.0 26 1560.0 0.0 0.0 1890.0 0.0 0.0 2240.0 0.0 0.0 27 1620.0 0.0 0.0 1890.0 0.0 0.0 2240.0 0.0 0.0 28 1680.0 0.0 0.0 12100.0 0.0 0.0 2240.0 0.0 0.0 30 1800.0 0.0 0.0 123390.0 0.0 0.0 2240.0 0.0 0.0 31 1860.0 0.0 0.0 12450.0 0.0 0.0 2240.0 0.0 0.0 33 1980.0 0.0 0.0 12590.0 0.0 0.0 2260.0 0.0 0.0 34 12040.0 0.0 0.0 12590.0 0.0 0.0 2260.0 0.0 0.0 35 2100.0 0.0 0.0 12590.0 0.0 0.0 2300.0 0.0 0.0 36 2280.0 0.0 0.0 12590.0 0.0 0.0 1300.0 0.0 0.0 36 2280.0 0.0 0.0 0.0 12590.0 0.0 0.0 1300.0 0.	ł	-		•	1	ì	•	•	•	!		-	
10	-			:	•	ł	•	•	•	ŀ	•	•	•
11	1			:	:	l	•	•	•	ì	•	:	
12 720.0 0.0 0.0 840.0 64.4 63.6 960.0 87.8 87.8 13 780.0 0.0 0.0 910.0 61.8 61.8 1040.0 85.2 85.2 14 840.0 0.0 0.0 980.0 0.0 0.0 1120.0 77.5 77.5 77.5 15 900.0 0.0 0.0 1050.0 0.0 0.0 1120.0 77.0 77.6 17 16 960.0 0.0 0.0 1120.0 0.0 0.0 1280.0 77.0 77.6 17 1020.0 0.0 0.0 1120.0 0.0 0.0 1360.0 68.8 69.4 18 1080.0 0.0 0.0 1260.0 0.0 0.0 1360.0 68.8 69.4 18 1080.0 0.0 0.0 1330.0 0.0 0.0 1440.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 0.0 1220.0 0.0 0.0 0.0 0.0 1220.0 0.	i		: :	•	•	ï	•	•	•	i	•	•	•
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14	i			•	:	i	•	•	•	i	•	•	: :
15	i		•	•	•	i	•	•		•		:	•
16 960.0 0.0 0.0 1120.0 0.0 0.0 1280.0 77.0 77.6 17 1020.0 0.0 0.0 1190.0 0.0 0.0 1360.0 68.8 69.4 18 1080.0 0.0 0.0 1260.0 0.0 0.0 1440.0 0.0 0.0 0.0 1260.0 0.0 0.0 1520.0 0.0 0.0 0.0 20 1200.0 0.0 0.0 1400.0 0.0 0.0 1520.0 0.0 0.0 0.0 20 1220.0 0.0 0.0 1400.0 0.0 0.0 1680.0 0.0 0.0 1260.0 0.0 0.0 1220.0 0.0 0.0 0.0 1230.0 0.0 0.0 1680.0 0.0 0.0 0.0 123 1380.0 0.0 0.0 1660.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640.0 0.0 0.0 1640	i			:	•	i	•	•	•	•	•	•	
17	i			:	:		•	•	•	•	•	•	
18	i		•	•	•	•		•	•	•	•	•	•
19	i		•	•	:	•	•	•	•	•	•	:	: :
20 1200.0 0.0 0.0 1400.0 0.0 0.0 1600.0 0.0 0.0 0.0 21 1260.0 0.0 0.0 1470.0 0.0 0.0 1680.0 0.0 0.0 0.0 0.0 22 1320.0 0.0 0.0 1540.0 0.0 0.0 1760.0 0.0 0.0 0.0 23 1380.0 0.0 0.0 1680.0 0.0 0.0 1680.0 0.0 0.0 0.0 24 1440.0 0.0 0.0 1680.0 0.0 0.0 1920.0 0.0 0.0 25 1500.0 0.0 0.0 1750.0 0.0 0.0 12000.0 0.0 0.0 26 1560.0 0.0 0.0 1820.0 0.0 0.0 12080.0 0.0 0.0 27 1620.0 0.0 0.0 1890.0 0.0 0.0 12160.0 0.0 0.0 28 1680.0 0.0 0.0 1960.0 0.0 0.0 12240.0 0.0 0.0 29 1740.0 0.0 0.0 2030.0 0.0 0.0 12240.0 0.0 0.0 30 1800.0 0.0 0.0 2170.0 0.0 0.0 12480.0 0.0 0.0 32 1920.0 0.0 0.0 2240.0 0.0 0.0 2240.0 0.0 0.0 33 1980.0 0.0 0.0 2230.0 0.0 0.0 2230.0 0.0 0.0 34 2040.0 0.0 0.0 2330.0 0.0 0.0 12560.0 0.0 0.0 35 12100.0 0.0 0.0 2330.0 0.0 0.0 12880.0 0.0 0.0 36 12160.0 0.0 0.0 12500.0 0.0 0.0 12880.0 0.0 0.0 38 12220.0 0.0 0.0 12560.0 0.0 0.0 12520.0 0.0 0.0 12880.0 0.0 0.0 38 12220.0 0.0 0.0 12596.0 0.0 0.0 12880.0 0.0 0.0 0.0 39 2340.0 0.0 0.0 12596.0 0.0 0.0 13040.0 0.0 0.0 12400.0 0.0 0.0	i			1	•	•	•	•	•	•	•	•	: :
21 1260.0 0.0 0.0 1470.0 0.0 0.0 1680.0 0.0 0.0 0.0 22 1320.0 0.0 0.0 1540.0 0.0 0.0 1760.0 0.0 0.0 0.0 23 1380.0 0.0 0.0 1610.0 0.0 0.0 1840.0 0.0 0.0 0.0 24 1440.0 0.0 0.0 1680.0 0.0 0.0 1920.0 0.0 0.0 25 1500.0 0.0 0.0 1750.0 0.0 0.0 2000.0 0.0 0.0 26 1560.0 0.0 0.0 1820.0 0.0 0.0 2080.0 0.0 0.0 27 1620.0 0.0 0.0 1890.0 0.0 0.0 2160.0 0.0 0.0 28 1680.0 0.0 0.0 2030.0 0.0 0.0 2240.0 0.0 0.0 2320.0 0.0 0.0 30 1800.0 0.0 2170.0 0.0 0.0 2480.0 0.0 0.0 32 1920.0 0.0 0.0 2240.0 0.0 0.0 33 1980.0 0.0 0.0 2230.0 0.0 0.0 2240.0 0.0 0.0 34 2040.0 0.0 0.0 2330.0 0.0 0.0 2560.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2480.0 0.0 0.0 36 2220.0 0.0 0.0 2250.0 0.0 0.0 2880.0 0.0 0.0 37 2220.0 0.0 0.0 2570.0 0.0 0.0 2880.0 0.0 0.0 38 2280.0 0.0 0.0 2270.0 0.0 0.0 39 2340.0 0.0 0.0 2270.0 0.0 0.0 39 2340.0 0.0 0.0 2270.0 0.0 0.0 39 2340.0 0.0 0.0 22800.0 0.0 0.0 22800.0 0.0 0.0 2000.0 0.0 0.0 2000.0 0.0 0.0 2000.0 0.0 0.0 0.0 0.0 2000.0 0.0	i		•	:	•	•	•						
23	i		•		:	•	•				-	:	: :
24	i	•	•	j 0.0	0.0		•			•	•	Ĭ	0.0
25	İ	23	1380.0	0.0	0.0	Ĺ	1610.0	0.0	0.0	İ	1840.0	0.0	0.0
26 1560.0 0.0 0.0 1820.0 0.0 0.0 2080.0 0.0 0.0 0.0 27 1620.0 0.0 0.0 1890.0 0.0 0.0 2160.0 0.0 0.0 0.0 28 1680.0 0.0 0.0 1960.0 0.0 0.0 0.0 2240.0 0.0 0.0 0.0 29 1740.0 0.0 0.0 2030.0 0.0 0.0 2320.0 0.0 0.0 0.0 30 1800.0 0.0 0.0 2100.0 0.0 0.0 2440.0 0.0 0.0 0.0 31 1860.0 0.0 0.0 2170.0 0.0 0.0 2480.0 0.0 0.0 0.0 32 1920.0 0.0 0.0 2240.0 0.0 0.0 2560.0 0.0 0.0 33 1980.0 0.0 0.0 2310.0 0.0 0.0 2560.0 0.0 0.0 34 2040.0 0.0 0.0 2380.0 0.0 0.0 2720.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2880.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 37 2220.0 0.0 0.0 2596.0 0.0 0.0 2880.0 0.0 0.0 38 2280.0 0.0 0.0 2660.6 0.0 0.0 3040.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0	İ	24	1440.0	0.0	0.0	ĺ	1680.0	0.0	0.0	Ì	1920.0	0.0	0.0
27	Ì	25	1500.0	0.0	0.0	1	1750.0	0.0	0.0	Ì	2000.0	0.0	0.0
28	Ì	26	1560.0	0.0	0.0	1	1820.0	0.0	0.0	ĺ	2080.0	0.0	0.0
29 1740.0 0.0 0.0 2030.0 0.0 0.0 2320.0 0.0 0.0 330 1800.0 0.0 0.0	1	27	1620.0	0.0	0.0	1.	1890.0	0.0	0.0	1	2160.0	0.0	0.0
30 1800.0 0.0 0.0 2100.0 0.0 0.0 2400.0 0.0 0.0 0.0 31 1860.0 0.0 0.0 2170.0 0.0 0.0 2480.0 0.0 0.0 0.0 32 1920.0 0.0 0.0 2240.0 0.0 0.0 2560.0 0.0 0.0 0.0 33 1980.0 0.0 0.0 2310.0 0.0 0.0 2640.0 0.0 0.0 0.0 0.0 34 2040.0 0.0 0.0 2330.0 0.0 0.0 2720.0 0.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2800.0 0.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 0.0 37 2220.0 0.0 0.0 2596.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2730.0 0.0 0.0 3040.0 0.0 0.0 40 2400.0 0.0 2800.0 0.0 0.0 3200.0 0.	1	28	1680.0	0.0	0.0	\mathbf{I}_{i}	1960.0	0.0	0.0		2240.0	0.0	0.0
31 1860.0 0.0 0.0 2170.0 0.0 0.0 2480.0 0.0 0.0 32 1920.0 0.0 0.0	Ì	29	1740.0	0.0	0.0	1	2030.0	0.0	0.0	1	2320.0	0.0	0.0
32 1920.0 0.0 0.0 2240.0 0.0 0.0 2560.0 0.0 0.0 0.0 33 1980.0 0.0 0.0 2310.0 0.0 0.0 2640.0 0.0 0.0 0.0 34 2040.0 0.0 0.0 2380.0 0.0 0.0	1		•	0.0	1			0.0				0.0	0.0
33 1980.0 0.0 0.0 2310.0 0.0 0.0 2640.0 0.0 0.0 0.0 34 2040.0 0.0 0.0	1	,	•	•	•	•	•					•	0.0
34 2040.0 0.0 0.0 2380.0 0.0 0.0 2720.0 0.0 0.0 0.0 35 2100.0 0.0 0.0 2450.0 0.0 0.0 2800.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 0.0 37 2220.0 0.0 0.0 2596.0 0.0 0.0 2960.0 0.0 0.0 0.0 38 2280.0 0.0 0.0 2600.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 28800.0 0.0 0.0 3200.0 0.0 0.0 0.0 40 2400.0 0.0 0.0 28800.0 0.0 0.0 3200.0 0.0 0.0 0.0 40 2400.0 0.0 0.0 28800.0 0.0	Į	32	1920.0	0.0	0.0		2240.0	0.0					0.0
35 2100.0 0.0 0.0 2450.0 0.0 0.0 2800.0 0.0 0.0 36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 0.0 37 2220.0 0.0 0.0 2596.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2600.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0	١		•	•	0.0		2310.0	0.0	0.0		2640.0	0.0	0.0
36 2160.0 0.0 0.0 2520.0 0.0 0.0 2880.0 0.0 0.0 37 2220.0 0.0 0.0 2596.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2600.0 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2890.0 0.0 0.0 3200.0 0.0 0.0 40			•		0.0	1	[2330.0]	0.0		:	7	:	0.0
37 2220.0 0.0 0.0 2596.0 0.0 0.0 2960.0 0.0 0.0 38 2280.0 0.0 0.0 2660.6 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0 +			•		•					•	•	•	0.0
38 2280.0 0.0 0.0 2660.6 0.0 0.0 3040.0 0.0 0.0 39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0 40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0 0.0 40 40 40 40	-												:
39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0 0.0 40 2400.0 0.0 2800.0 0.0 0.0 3200.0 0.0			•	•	•							•	
40 2400.0 0.0 0.0 2800.0 0.0 3200.0 0.0 0.0 ++	ļ		•	1									:
++++++++++	ļ	,	•	•	•								:
+	١												
	+												
+	1	C	DASPL	108.4	87.4			115.6	98.4			[121.1]	110.1

- FREQUENCY HZ

Control of the second of the s

SPL - SOUND PRESSURE LEVEL DB RE 21.-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 23.7 DEG)

	DATA-POINT / RUN											
	ļ			DATA-	POINT /	RUN						
	FN	-4 /	169	FN	-5 /	170	FN	-6 /	171			
HN	F	SPL	SPLA	 F	SPL	SPLA	F	SPL	SPLA			
1	11 60.0	106.9	80.7	 70.0	114.6	88.4	80.0	1119.4	96.9			
•	120.0	99.8		140.0	108.4	: :	•	111.3	97.9			
	180.0	88.7	77.8	210.0	98.6	87.7	240.0	•	100.3			
	240.0	79.3	:	280.0	97.3	88.7	320.0	:	101.9			
j 5	300.0	73.9	67.3	350.0	90.0	83.4	400.0	99.9	95.1			
j 6	1 360.0	67.5	62.7	420.0	82.3	77.5	480.0	96.8	93.6			
1 7	420.0	0.0	0.0	490.0	70.5	67.3	560.0	97.6	94.4			
8	480.0	0.0	0.0	560.0	75.5	72.3	640.0	91.0	89.1			
9	540.0	0.0	0.0	630.0	71.8	69.9	720.0	78.9	78.1			
10	600.0	0.0	0.0	700.0	65.9	64.0	800.0	87.2	86.4			
111	660.0	0.0	0.0	770.0	0.0	0.0	880.0	79.3	78.5			
12	720.0	0.0	0.0	840.0	0.0	0.0	960.0	68.9	68.9			
13	780.0	0.0	0.0	910.0	0.0	0.0	1040.0	71.4	71.4			
14	840.0	0.0	0.0	980.0	0.0	0.0	1120.0	0.0	0.0			
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	0.0	0.0			
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	0.0	0.0			
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	0.0	0.0			
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	0.0	0.0			
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	0.0	0.0			
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	0.0	0.0			
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	0.0	0.0			
22	 1320. 0	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0			
23	1380.0	0.0	0.0	1610.0	0.0		1840.0	0.0	0.0			
24	11440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0			
•	1500.0	0.0	•	1750.0	0.0		2000.0	0.0	0.0			
•	1560.0	0.0	•	1820.0	0.0		2080.0	0.0	0.0			
•	1620.0	0.0		1890.0	0.0	•	2160.0	0.0	0.0			
•	11680.0	0.0	0.0	1960.0	0.0		2240.0	0.0	0.0			
•	1740.0	0.0		2030.0	0.0		2320.0	0.0	0.0			
•	1800.0	0.0		2100.0	0.0		2400.0	0.0	0.0			
•	1860.0	0.0		2170.0	0.0	,	2480.0	0.0	0.0			
	1920.0	_	1	2240.0	I .		2560.0		: :			
•	1980.0	•	•	2310.0		: :	2640.0	0.0				
:	2040.0		:	2380.0	1		2720.0	•	0.0			
1	2100.0			: :	0.0		2800.0	•	0.0			
	2160.0	0.0	•	2520.0	0.0		2880.0	:	0.0			
•	112220.0	0.0	:	2590.0		•	2960.0	•	0.0			
	2280.0		•	2660.0		•	3040.0	•	: :			
	[[2340.0						3120.0		:			
	2400.0 								•			
	, , 											
•	OASPL	•		•			•					
+		+		++	+	-	+	+	+			

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 23.7 DEG)

-	DATA-POINT / RUN											
++	FN	-4 / :	169 +	1	FN-	-5 /	170 +	 -	FN	-6 / +	171 	
HN	F	SPL	SPLA	1	F +	SPL	SPLA	 	F	SPL	SPLA	
1 1	:	104.3	•	ĺ		112.8			•	115.4		
2	120.0	90.3	74.2	ļ	140.0	98.9	•		•	106.0	92.6	
3	•	81.9	71.0	1	210.0	87.7 74.2	•		•	101.4	92.8	
4	!	73.5	64.9		280.0 350.0	0.0	65.6	[320.0 400.0	91.2 88.9	84.6 84.1	
5	•	78.4 58.7	71.8 53.9	1	330.0	0.0	•	 		1 74.8	04.1 71.6	
: - :	•	0.0	0.0	!	420.0	0.0	•] 	•	80.4	71.0 77.2	
: :	!	0.0		1	560.0	0.0	•	! -	<u> </u>	78.9	77.2 77.0	
1	:	:	:	1	630.0	0.0	•	:	:	65.7	64.9	
9	1	0.0		1	700.0	0.0	:	 		0.0	0.0	
111		0.0	0.0	1	770.0	0.0		 -		0.0	0.0	
12	720.0	0.0	0.0	1	840.0	0.0	0.0	1	960.0	0.0	0.0	
13	780.0	0.0	0.0	-	910.0	0.0	•	1 I	1040.0	0.0	0.0	
14	840.0	0.0	0.0	i	980.0	0.0	•	•	1120.0	0.0	0.0	
1 15	900.0	0.0	0.0	l	1050.0	0.0	•	•	1200.0	0.0	0.0	
16	960.0	0.0	0.0	,	1120.0	0.0	•	•	1280.0	0.0	0.0	
	1020.0	0.0	0.0		1190.0	0.0	•	•	1360.0	0.0	0.0	
	1080.0	0.0	0.0		1260.0	0.0	•	•	1440.0	0.0	0.0	
, .	1140.0	0.0	0.0	•	1330.0	0.0	•	•	1520.0	0.0	0.0	
	1200.0	0.0	0.0	•	1400.0	0.0		-	1600.0	0.0	0.0	
•	1260.0	U.0	0.0		1470.0	0.0		•	1680.0	:	0.0	
•	1320.0	0.0	0.0		1540.0	0.0	•	•	1760.0	•	0.0	
	1380.0	0.0	0.0		1610.0	0.0	•	•	1840.0	0.0	0.0	
• •	1440.0	0.0	0.0		1680.0	0.0		•	1920.0	0.0	0.0	
•	1500.0	0.0	0.0		1750.0	0.0		•	2000.0	0.0	0.0	
	1560.0	5.0	0.0	•	1820.0	0.0	0.0		2080.0	0.0	0.0	
	1620.0	0.0	0.0		1890.0	0.0	0.0		2160.0	0.0	0.0	
, .	1680.0	0.0	0.0	•	1960.0	0.0		•	2240.0	0.0	0.0	
•	1740.0	0.0	0.0	i		0.0				0.0	0.0	
	1800.0	0.0	0.0	i	2100.0	0.0				0.0	0.0	
	1850.0	6.0	'		2170.0	0.0				0.0	0.0	
	1920.0				2240.0			, ,	2560.0	•	•	
•	1980.0				2310.0				2640.0	•		
	2040.0				2380.0				2720.0			
	2100.0			•	2450.0				2800.0		0.0	
	2160.0				2520.0				2880.0		0.0	
	2220.0				2540.0				2960.0		0.0	
	2280.0								3040.0		0.0	
	2540.0									•	0.0	
40 [(2450 O)	0.0	0.0	ļ	[2500.0]	0.0	0.0	1	3200.0	0.0		
	* -											
0	7:51.	104 5	80.9	1		113.0	88.4			116.1	98.0	

F - FREQUENCY HE

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 23.7 DEG)

	DATA-POINT / RUN												
+	 FN	-4 /				-5 / :		FN	-6 /	171			
HN	F	SPL	•			SPL	SPLA	•	SPL	SPLA			
1	60.0	105.2	•			109.5	•		113.1	90.6			
2	120.0	98.2	•			106.8	90.7	:	110.3	96.9			
3	180.0	90.4	:			102.2	91.3	•	•	100.7			
4	240.0	84.5		!!		98.5	89.9	•	106.2	99.6			
5	300.0	79.6	73.0	!!	350.0	92.4	85.8	•	104.7	99.9			
6	360.0	72.1	67.3		420.0	89.1	84.3	•	101.7	98.5			
7	420.0	0.0	•	11		84.0	80.8	•	100.0	96.8			
8	480.0	0.0	•			81.8	78.6	640.0	97.5	95.6			
9	540.0	0.0				78.0		•	95.6	94.8			
10	600.0	0.0	•		700.0	71.4	69.5		93.6	92.8			
11	660.0	0.0	•			0.0		•	89.9	89.1			
•	720.0	0.0	•			0.0		960.0	88.1	88.1			
:	780.0	0.0	•			0.0		11040.0	85.0	85.0			
1	840.0	0.0		[]		0.0		1120.0	•	83.2			
	900.0	0.0	•		1050.0	0.0		1200.0	79.5	80.1			
16	960.0	0.0	•		1120.0	0.0	:	1280.0	77.7	78.3			
•	1020.0 1080.0	0.0	•		1190.0 1260.0	0.0		1360.0 1440.0	75.7 71.1	76.3 72.1			
•	1080.0	0.0	•		1330.0	0.0		1520.0	71.1	72.1			
	11200.0	0.0	:	: :	1400.0	0.0		1600.0	0.0	0.0			
•	11260.0	0.0	•	٠.	1470.0	0.0		1680.0	0.0	0.0			
•	1200.0	0.0	•		1540.0	0.0		1760.0	0.0	0.0			
•	1380.0	0.0			1610.0	0.0		1840.0	•	0.0			
•	1440.0	0.0	•		1680.0	0.0		1920.0	-	0.0			
-	1500.0	0.0	•	٠.	1750.0	0.0		2000.0		0.0			
•	11560.0	0.0	•	: :	1820.0	0.0		2080.0	•	0.0			
•	1620.0	0.0	•		1890.0	0.0	•	2160.0	•	0.0			
•	1680.0	0.0	•		1960.0	0.0		2240.0	0.0	0.0			
•	1740.0	0.0	•		2030.0	0.0		2320.0		0.0			
•	1800.0	0.0	•		2100.0	0.0		2400.0	0.0	0.0			
•	1860.0	0.0	•		2170.0	0.0		2480.0	0.0	0.0			
	1920.0	•	•		2240.0			2560.0	•				
	1980.0				2310.0			2640.0					
•	2040.0	7	•	٠.	2380.0			2720.0					
-	2100.0		•		2450.0			2800.0					
	2160.0	1			2520.0			2880.0	•				
•	2220.0	•	•					2960.0	•				
•	2280.0	-								•			
	2340.0												
	2400.0												
+	++	+	· ·	++			+	+					
•		•	•			,		•	•				
(DASPL	106.2	86.0	П	!	112.2	96.7]	117.0	107.7			
		+	·	++			+	+	·				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SFLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 23.7 DEG)

	DATA-POINT / RUN											
 .	 FN	-4 /	169	1	FN.	-5 /	170		FN	-6 /	171 +	
HN	 F	SPL	SPLA			SPL	SPLA	 -	, F	SPL	SPLA	
1	60.0	106.1	•		•	109.8	•	i	80.0	1115.1	92.6	
2		99.0	82.9	1	•	106.6	•	I	•	109.9	96.5	
3	180.0	90.7	79.8		•	97.1	•	١	•	108.5	99.9	
	240.0	82.1	73.5	l	•	100.4	91.8	ļ	320.0	109.1	102.5	
	300.0	81.7	•	1	350.0	95.2	88.6	ļ	400.0	102.7	97.9	
6	360.0	69.1	64.3	Ţ	420.0	84.9	80.1	ļ	480.0	101.3	98.1	
7	420.0	58.3	53.5	ļ	490.0	82.7	79.5	ļ	560.0	101.8	98.6	
	480.0	0.0		!	560.0	81.1		İ	•	97.1	95.2	
- '	540.0	0.0	,	1	630.0	77.5	•	ļ	•	93.7	92.9	
	600.0	0.0	•		700.0	72.9	• -	ļ	•	95.0	94.2	
	660.0	0.0	•	1		0.0	•	ļ	•	89.4	88.6	
	720.0	0.0	•		840.0	0.0	•	ļ	•	85.6	85.6	
	780.0	0.0	•	!	910.0	0.0	•	•	1040.0	87.8	87.8	
	840.0	0.0	!		980.0	0.0	•	•	1120.0	82.4	82.4	
	900.0	0.0			1050.0	0.0	•	•	1200.0	78.0	78.6	
	960.0	0.0	0.0	•	1120.0	0.0	•	•	11280.0	0.0	0.0	
	1020.0	0.0	0.0	•	1190.0	0.0	•	•	1360.0	0.0	0.0	
	11080.0	0.0	0.0		1260.0	0.0	•	•	11440.0	0.0 0.0	0.0	
	1140.0	0.0	0.0		1330.0 1400.0	0.0	•	-	1520.0 1600.0	0.0	0.0	
	1200.0 1260.0	0.0	0.0		1470.0	0.0 0.0	•	•	1680.0	0.0	0.0	
	1200.0	0.0 0.0	0.0		1540.0	0.0	•	•	1760.0	0.0	0.0	
	1320.0	0.0	0.0		1610.0	0.0	•	•	1840.0	0.0	0.0	
•	11440.0	0.0	0.0		1680.0	0.0	•	•	1920.0	0.0	0.0	
	1500.0	0.0	0.0	•	1750.0	0.0	•	•	2000.0	0.0	0.0	
	1560.0	0.0			1820.0	0.0	•	•	2080.0	0.0	0.0	
	1620.0	0.0	:		1890.0	0.0	•	•	2160.0	0.0	0.0	
	1680.0	0.0			1960.0	0.0	•	•	2240.0	0.0	0.0	
•	1740.0	0.0			2030.0	0.0	•	•	2320.0	0.0	0.0	
	1800.0	0.0	0.0		2100.0	0.0			2400.0	0.0	0.0	
	1860.0	0.0	0.0	ii	2170.0	0.0			2480.0	0.0	0.0	
	1920.0	•	,	ii	2240.0	0.0	,	•	2560.0	0.0		
	1980.0	0.0			2310.0	0.0			2640.0	0.0		
	2040.0	1	0.0		2380.0	•	:		2720.0	0.0		
•	2100.0		•		2450.0		•	•	2800.0	0.0	:	
	2160.0				2520.0		•	•	2880.0	0.0	:	
	2220.0		•		2590.0	•	•	•	2960.0	0.0	-	
	2280.0	•	:		2660.0		•		3040.0	:		
	2340.0	1			2730.0	0.0	0.0		3120.0	0.0	0.0	
	2400.0						0.0	1	3200.0	0.0		
	++											
	. 											
										118.0		
		+	+ 	++		·	+	+	+	+	+	

F - FREQUENCY HZ

DEPOSIT RECEIVED POSSODOR RECEIVED FOR LUCION FOR PROPERTY OF THE PROPERTY OF

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN												
++	 EN-	-1 / :		EN	-2 /	164	EN	-3 / +	165				
HN	F	SPL			SPL	SPLA	F	SPL	SPLA				
1 1	70.0	104.4	78.2	80.0	107.2	84.7	90.0	113.1	94.0				
2	140.0	97.4		•	106.7	93.3	180.0	112.4	101.5				
3		95.9	85.0	240.0	105.4	96.8	270.0	1113.4	104.8				
4	280.0	90.0	•	320.0	102.5	95.9	:	:	108.2				
5	350.0	85.9	79.3	400.0	101.8	97.0	450.0	:	108.1				
6	420.0	81.8	77.0	480.0	95.7	92.5	540.0	110.5	107.3				
7	490.0	76.2	73.0	560.0	91.4	88.2	630.0	110.1	108.2				
8	560.0	73.2	70.0	640.0	91.0	89.1	720.0	108.6	107.8				
9 1	630.0	66.0	64.1	720.0	89.4	88.6	810.0	107.7	106.9				
10	700.0	0.0	0.0	•	86.3	85.5	900.0	107.6	107.6				
11	770.0	0.0	0.0	880.0	80.2	79.4	990.0	•	106.3				
12	840.0	0.0	0.0	960.0	79.6	79.6		•	103.5				
13	910.0	0.0		1040.0 1120.0	78.6	78.6	1170.0 1260.0	101.2	1101.8				
	980.0 1050.0	0.0		1120.0	74.1	: :	1350.0	98.2	100.2 98.8				
	1120.0	0.0	. ,	1280.0	63.5	: :	1440.0	96.1	97.1				
	11120.0	0.0		1360.0	62.1	: :	1530.0	96.2	97.1				
	1260.0	0.0	•	1440.0	61.2		1620.0	95.1	96.1				
	1330.0	0.0		1520.0	58.4	: :	1710.0	92.7	93.7				
•	1400.0	0.0		1600.0	51.6	: :	1800.0	92.2	93.4				
	1470.0	0.0		1680.0	0.0	• •	1890.0	90.8	92.0				
•	1540.0	0.0		1760.0	0.0	: :	1980.0	88.4	89.6				
	1610.0	0.0		1840.0	0.0		2070.0	85.6	86.8				
	1680.0	0.0		1920.0	0.0		2160.0	84.8	86.0				
•	1750.0	0.0	0.0	2000.0	0.0		2250.0	85.6	86.9				
: :	1820.0	0.0	0.0	2080.0	0.0	•	2340.0	83.0	i 84.3 i				
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	82.8	84.1				
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	82.8	84.1				
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	80.7	82.0				
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	78.6	79.9				
•	2170.0	0.0		2480.0	0.0	0.0	2790.0	77.2	78.5				
	2240.0			2560.0	0.0	: :	2880.0						
	2310.0			2640.0	0.0	1	2970.0	1	•				
•	2380.0			2720.0	0.0		3060.0	•					
	2450.0			2800.0	0.0		3150.0						
•	2520.0			12880.0	0.0	: :	3240.0	1					
•	2590.0 2660.0			2960.0	:	: :	3330.0	•					
•	2660.0			13040.0			3420.0	•	•				
	2730.0		•	3120.0 3200.0	•	: :	3510.0		•				
	2800.0	•	•	3200.0	•		3600.0	•	•				
				+									
0	ASPL	105.8	89.1		112.4	103.2	1	121.6	117.7				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN												
+	E	N-1 /	163		EN.	-2 /	164		EN	-3 /	165		
HN	F	SPL	SPLA	 -	F	, SPL	SPLA		, F	SPL	SPLA		
1 1	• •	1107.6	•	į	•	110.7	•	İ	•	115.0	: :		
	140.0	103.0	86.9		•		97.2	•	•	117.7	106.8		
	210.0	99.6	88.7	ļ	•	108.2	•	-	•	115.7	107.1		
•	280.0	95.7	87.1		•	104.5	97.9	1	1	113.7	108.9		
	350.0 420.0	90.6	84.0	l	•	103.8	99.0	-	•	1117.1			
	11	88.7	83.9		•	1	100.7	1	•	1117.2	: :		
1 8	11 490.0 11 560.0	81.6	78.4			100.5	97.3	1	:	•	112.9 112.5		
1 9	1 630.0	74.8	72.9	1	720.0	97.8 94.8	•		:	•	112.3		
1 10	700.0	71.1	69.2	1	800.0	93.6	92.8	1	:	114.1	1112.0		
111	770.0	66.4	65.6	i	880.0	92.4	91.6	1	•	111.4	111.4		
1 12	840.0	63.9	63.1	1	960.0	89.2	89.2	1	•	110.6	111.4		
1 13	910.0	0.0	0.0	 	1040.0	85.1	85.1	¦		110.3	110.0		
14	980.0	0.0	0.0	•	1120.0	83.5	83.5	l	•	109.6	110.2		
15	1050.0	0.0	0.0	•	1200.0	81.3	81.9	•	•	•	1108.7		
•	11120.0	0.0	0.0		1280.0	79.3			•	-	107.8		
•	11190.0	0.0	0.0		1360.0	76.0	•	•	•	•	107.1		
	11260.0	0.0	0.0	٠.	1440.0	73.1	•	•	•	•	106.5		
•	11330.0	0.0	0.0		1520.0	70.9	•	•			104.9		
•	1400.0	0.0	0.0		1600.0	68.2	•	•	•	•	103.2		
•	11470.0	0.0	0.0		1680.0	64.9			•	•	102.6		
•	1540.0	0.0	0.0		1760.0	61.0	•	•	•	101.8	103.0		
•	1610.0	0.0	0.0		1840.0	57.7	•	•	2070.0	•	100.9		
24	1680.0	0.0	0.0	İ	1920.0	52.7	53.9	•	2160.0	98.7	i 99.9 i		
25	11750.0	0.0	0.0	П	2000.0	0.0	0.0	İ	2250.0	98.4	j 99.7 j		
1 26	1820.0	0.0	0.0		2080.0	0.0	0.0	İ	2340.0	98.0	j 99.3 j		
27	1890.0	0.0	0.0		2160.0	0.0	0.0	1	2430.0	96.7	98.0		
28	11960.0	0.0	0.0		2240.0	0.0	0.0	1	2520.0	96.3	97.6		
29	1 2030.0	0.0	•		2320.0	0.0	•	•	2610.0	96.9	98.2		
•	2100.0	0.0	•		2400.0	0.0	:	•	2700.0	96.0	97.3		
•	1 2170.0	0.0	•	, ,	2480.0	0.0	•	•	2790.0	94.0	95.3		
	12240.0				2560.0	0.0			2880.0	93.7	94.9		
•	2310.0	•	•	٠.	2640.0				2970.0				
	2380.0		•						3060.0	•			
	•	0.0	•		2800.0		•		3150.0	•			
-		0.0			2880.0				3240.0		92.3		
•		0.0			2960.0				3330.0		92.3		
	2660.0						•		3420.0	•	91.8		
	112730.0												
	40 2800.0 0.0 0.0												
++											•		
OASPL 109.6 94.2											123.8		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 19.9 DEG)

	+ !			-	DATA-	POINT /	RUN			
+	 EN	-1 /			EN	-2 /	164 ++	EN	-3 /	165 +
HN	F	SPL				SPL	•	F	SPL	SPLA
1	70.0	109.3	•	İ	80.0	114.1	91.6	•	115.8	96.7
•		104.7	•	1	•	111.4	:	•	•	105.4
3	1 1	100.2	:		•	110.1	101.5	•	:	105.3
•	280.0	96.4	87.8	ļ	•	107.4	100.8	•	•	111.4
•	350.0	92.5	85.9	ļ	•	107.1	102.3	•	116.3	113.1
6	420.0	90.5	85.7	ļ	480.0	103.1	99.9	•	113.1	109.9
7	490.0	85.1	81.9	ļ	560.0	98.4	95.2	•	115.0	113.1
8	1 560.0	80.4	77.2	Ì	640.0	98.2	96.3	•	•	114.5
9	630.0	77.6	75.7	ļ	720.0	95.9	95.1	•	1	113.0
	700.0	73.4	71.5	!	800.0	92.2	91.4	•		113.6
11	1 770.0	66.9	,	ļ	,	88.6	87.8	•	•	1113.4
1	840.0	65.0	64.2	ļ	960.0	89.0	89.0	•	•	1111.2
1 13	910.0	60.0	60.0	•	1040.0	88.0		•	•	109.6
1 14	980.0	0.0	•	•	1120.0	85.6	•	•	•	1111.2
•	1050.0	0.0	•	•	1200.0	84.9		•	•	1109.9
•	1120.0	0.0	•	•	1280.0	85.9	•	•	•	107.3
	11190.0	0.0	:	•	1360.0	85.3	•	•	•	1107.1
•	1260.0	0.0	0.0	:	1440.0	83.7		•	•	1108.0
	1330.0	0.0	0.0 0.0	•	1520.0 1600.0	83.4	: :		104.9 101.6	105.9 102.8
•	1400.0 1470.0	0.0	•	•	1680.0	82.9 81.7		•	•	102.8
•	1540.0	0.0	•	•	1760.0	80.6	: :	•	:	103.3
	11610.0	0.0	•		1840.0	80.0	:	•	•	101.2
•	1610.0	0.0	•	•	1920.0	79.5	80.7		•	100.3
•	1750.0	0.0	•	•	2000.0	78.9	80.1	•	•	101.2
•	11820.0	0.0	•		2080.0	78.3		2340.0	97.9	99.2
•	11820.0	0.0	•	•	2160.0	78.0	•	2430.0	95.8	97.1
	1960.0	0.0	•		2240.0	77.5	•	2520.0	96.9	98.2
•	[[2030.0	0.0	•	•	2320.0	77.1		2610.0	96.8	98.1
•	[2100.0	0.0	•	•	2400.0	76.5		2700.0	95.2	96.5
	2170.0	0.0	•	•	2480.0	76.1	, ,, 77.4	2790.0	94.4	95.7
	2240.0			•	2560.0	•		2880.0	,	
	2310.0				2640.0			2970.0		
•	2380.0		•					3060.0		95.2
	2450.0							3150.0		
•	2520.0		-			-		3240.0		
•	2590.0							3330.0	-	
	2660.0							3420.0		
•	[[2730.0							3510.0		
	2800.0						•			
	++								•	
	OASPL									123.9
4		+		+ +			++	+	+ -	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 19.9 DEG)

	•	+ 			-	DATA-	POINT /	RUN	-			
+	-+-	I EN	-1 /	163	•	EN	-2 /	164 +	 -	EN	-3 / +	165
HN	, -+-	F	SPL	SPLA		F	SPL	SPLA	 -	F	SPL	SPLA
1 1	İ	•	1111.1	•	- 1	•	117.1	:	1	•	117.7	•
2	[140.0	•	89.8	Ì	•	1111.6	98.2	ļ	180.0	•	104.6
3	ļ	•	100.3	89.4	1	•	•	102.9	ļ	•	•	107.8
4		•	98.4	89.8		•	•	102.2	ŀ	•	•	110.3
5	Ì	•	92.5	85.9	ļ	•	•	•	!	•	•	1112.4
6	!	•	88.9	84.1	ļ	,		100.4	!	•	•	1110.3
1 7	-	•	83.6	80.4	-	•	101.4	98.2	1	•	•	1112.9
8	ļ	•	80.3	77.1 74.7		•	100.0 95.8	98.1 95.0	1	•	1	112.1
	-	•	76.6	68.6	1		93.6	93.6	l	•	•	111.2 112.5
10	1	:	70.5 62.4	61.6	1	800.0 880.0	92.1	91.3	ŀ	•	•	1112.5
1 12	I	840.0	0.0	0.0	1	960.0	88.5	88.5	ŀ	•	:	110.4
1 13	į.	910.0	0.0	0.0	1	1040.0	87.0	87.0	l	I		1103.7
1 14	ł	980.0	0.0	0.0	•	1120.0	85.2		i t	•	•	110.1 107.1
1 15	1	1050.0	0.0	0.0		1200.0	81.3	•	•	•	•	107.1 107.1
1 16	•	1120.0	0.0	0.0	•	1280.0	77.4	•	•	•	•	106.6
1 17	•	1120.0	0.0	•	•	1360.0	76.9	•	•	•	•	104.3
13	•	1260.0	0.0		•	1440.0	74.3	•	•	•	•	102.1
19		1330.0	0.0	0.0	•	1520.0	71.1	•	•	•	•	103.5
20		1400.0	0.0	0.0	•	1600.0	67.7	•	•	•	•	102.1
21		1470.0		0.0	•	1680.0	65.2	•	•	1890.0	96.9	98.1
22	•	1540.0	0.0	•		1760.0	64.5	•	•	1980.0	97.7	98.9
23		1610.0	0.0	0.0		1840.0	59.6	•	•	2070.0	96.7	97.9
24	- 1	1680.0	0.0	0.0		1920.0	59.1	•	•	2160.0	93.6	94.8
25	•	1750.0	0.0	0.0		2000.0	0.0	0.0	•	2250.0	94.4	95.7
26		1820.0	0.0	0.0		2080.0	0.0	0.0	i	2340.0	92.8	94.1
27		1890.0	0.0	0.0	•	2160.0	0.0	:	i		92.2	93.5
28		1960.0	6.0	0.0	•	2240.0	0.0		i		92.7	94.0
1 29	ì	2030.0	0.0	0.0	•	2320.0	0.0		i		92.0	93.3
30	ì	2100.0	0.0	0.0	•	2400.0	0.0	•	i	2	90.9	92.2
31	i.	2170.0	0.0	•		2480.0	0.0	•	i	•	90.0	91.3
	i	2240.0	•	•		2560.0		1	•	2880.0		
		2310.0								2970.0		
										3060.0		
		2450.0								3150.0		
								•	•	3240.0	•	
		2590.0								3330.0		
		2660.0						•		3420.0	-	
								•	•	3510.0	,	
										3600.0		
										+		
										+		
1	()/	ASPL	112.8	95.9			119.9	109.5			125.6	122.4
+			} -		1 - 1			+	+	+	·	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DR RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 19.9 DEG)

	+ !			DATA-	POINT /	RUN	.		
++	EN	-1 / :	163	EN	-2 /		EN	-3 /	 165 +
HN	F	SPL	SPLA	F	SPL		F	SPL	SPLA
1 1	•	112.3	•		118.9	96.4	90.0	1119.5	1 1
2	•	107.0	90.9	160.0	1112.5	99.1	•	•	105.4 108.9
3	210.0	98.4	87.5	240 0	109.3 111.5	100.7 104.9	•		1114.8
[4	280.0 350.0	96.8 94.2	88.2	320.0 400.0	•	104.9	•		1107.8
6	420.0	85.4		480.0	98.6	95.4	•	•	107.5
7 1	490.0	79.0	i	560.0	100.4	97.2	•	•	1111.1
8	560.0	77.5		640.0	97.7	95.8	•	•	107.4
9	630.0	72.1	70.2	720.0	92.6	91.8	•	•	107.7
10	700.0	64.2	62.3	800.0	89.2	88.4	•	•	107.6
12		52.5	:	880.0	88.0	87.2	•	106.6	106.6
12	840.0	0.0	0.0	960.0	86.6	86.6	1080.0	104.6	104.6
13	•	0.0	0.0	1040.0	83.1	•	•	•	103.9
14	980.0	0.0	0.0	1120.0	78.3		•	•	103.5
	1050.0	0.0	•	11200.0	75.9		1350.0	:	101.1
	1120.0	0.0	:	1280.0	73.9		1440.0	98.7	99.7
	1190.0	0.0		1360.0	66.1		1530.0	37.9	98.9
	1260.0	0.0		1440.0	63.5	64.5	1620.0	95.5	96.5
	1330.0	0.0		1520.0	61.2	1	1710.0	93.2	94.2
	11400.0	0.0	•	1600.0 1680.0) 0.0 0.0	•	1800.0 1890.0	92.7	93.9 92.3
	1470.0 11540.0	0.0 0.0	•	1760.0	0.0		1980.0	88.9	90.1
	1610.0	0.0		1840.0	0.0		2070.0	91.2	92.4
	1680.0	0.0	•	1920.0	0.0		2160.0	86.7	87.9
	1750.0	0.0	•	2000.0	0.0		2250.0	84.8	86.1
	1820.0	0.0	•	2080.0	0.0	•	2340.0	85.7	87.0
	1390.0	0.0	•	2160.0	0.0	: :	2430.0	80.0	81.3
	1960.0	0.0	•	2240.0	0.0	0.0	2520.0	83.8	85.1
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	76.8	78.1
30	2100.0	0.0	•	2400.0	0.0		2700.0	78.9	80.2
	2170.0	0.0		2480.0	0.0		2790.0	81.1	82.4
	12240.0			2560.0			2880.0		
	2310.0	:	•	2640.0	-		2970.0		: :
	2380.0	•		2720.0			3060.0		. ,
	2450.0		-	2800.0		: :	3150.0	:	: :
	12520.0		:	2880.0	:		3240.0 3330.0		:
	2590.0 2660.0			2960.0 3040.0	Ī		3420.0	:	: '
	[2730.0]			3120.0	,		3510.0	•	:
		,	•	[3200.0	•			•	: '
.		·	+	++	+	++	+	+	++
1 0	ASEL	113.7	95.6		121.0	109.3		125.6	120.2
+			h	<u> </u>	+	++	-+	+	++

F - FREQUENCY HZ

SPA - SOUND PRESSURE LEVEL DE RE 2E-5 PA

SINA - A-WEIGHTED SOUND FRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 19.9 DEG)

35 2470.0 0.0 0.0 2800.0 0.0 0.0 3150.0 0.0 0.0 36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 0.0 0.0 37 2590.0 0.0 0.0 2960.0 0.0 0.0 3330.0 0.0 0.0 38 2660.0 0.6 0.0 3040.0 0.0 0.0 3420.0 0.0 0.0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0			+			_						+
HN F SPL SPLA F SPL SPLA F SPL SPLA SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA SPLA SPLA SPLA SPLA SPLA SPLA SPLA			1				DATA-1	POINT /	RUN			i
1 70.0 112.2 86.0 80.0 118.9 96.4 90.0 119.4 100.3 2 140.0 105.2 89.1 160.0 111.0 97.6 180.0 114.6 103.7 3 210.0 94.5 83.6 240.0 107.2 98.6 270.0 115.4 106.8 4 280.0 94.0 85.4 320.0 107.3 100.7 360.0 112.8 108.0 109.2 106.0 109.2 109.2 106.0 109.2 109.2 106.0 109.2 106.0 109.2 109.2 106.0 109.2 109.2 106.0 109.2	+	+	EN	-1 /	163 +	1	EN-	-2 / :	164 ++	EN	-3 / +	165 ++
2 140.0 105.2 89.1 160.0 111.0 97.6 180.0 114.6 103.7 3 210.0 94.0 83.6 240.0 107.2 98.6 270.0 115.4 106.8 4 280.0 94.0 85.4 320.0 107.3 100.7 360.0 112.8 108.0 5 350.0 86.4 79.8 440.0 98.0 93.2 450.0 103.3 100.1 6 420.0 73.5 68.9 480.0 92.5 89.3 540.0 103.5 101.6		HN	, F	SPL	SPLA		F	SPL	SPLA	F	SPL	SPLA
3	i	1	70.0	112.2	86.0	i	80.0	118.9	96.4	90.0	•	
4 280.0 94.0 85.4 320.0 107.3 100.7 360.0 112.8 108.0 5 350.0 86.4 79.8 400.0 93.0 93.2 450.0 103.3 100.1 6 420.0 73.7 68.9 1 480.0 92.5 89.3 540.0 109.2 106.0 7 490.0 72.6 69.4 560.0 95.4 92.2 630.0 103.5 101.6 8 560.0 73.5 70.3 640.0 89.1 87.2 720.0 98.6 97.8 9 630.0 57.1 55.2 720.0 74.3 73.5 810.0 103.0 102.2 10 700.0 0.0 0.0 800.0 83.7 82.9 900.0 95.1 95.1 11 770.0 0.0 0.0 880.0 75.5 74.7 990.0 89.1 89.1 840.0 0.0 0.0 1040.0 57.5 74.7 990.0 89.8 89.4 12 840.0 0.0 0.0 1040.0 0.0 0.0 1170.0 86.6 87.2 14 980.0 0.0 0.0 1120.0 0.0 0.0 1170.0 86.6 87.2 14 980.0 0.0 0.0 1120.0 0.0 0.0 1170.0 86.6 87.2 14 980.0 0.0 0.0 11280.0 0.0 0.0 1350.0 84.6 85.2 16 1120.0 0.0 0.0 1280.0 0.0 0.0 1350.0 84.6 85.2 16 1120.0 0.0 0.0 1260.0 0.0 0.0 1150.0 57.8 76.8 18 1260.0 0.0 0.0 1520.0 0.0 0.0 1600.0 75.8 76.8 19 1330.0 0.0 0.0 1520.0 0.0 0.0 1600.0 75.8 76.8 17.2 1440.0 0.0 0.0 1600.0 0.0 1600.0 75.8 76.8 17.2 1440.0 0.0 0.0 1600.0 0.0 1600.0 77.8 77.5 77.8 77.5		•	140.0	•	•	ţ	160.0	111.0		•	•	
5 350.0 86.4 79.8 400.0 98.0 93.2 450.0 103.3 100.1 6 420.0 73.7 68.9 480.0 92.5 89.3 540.0 109.2 106.0 7 490.0 72.6 69.4 1560.0 95.4 92.2 630.0 103.5 101.6 8 560.0 73.5 70.3 640.0 89.1 87.2 720.0 98.6 97.8 9 630.0 57.1 55.2 720.0 74.3 73.5 810.0 103.5 101.6 10 700.0 0.0 0.0 880.0 83.7 82.9 900.0 95.1 95.1 11 770.0 0.0 0.0 880.0 75.5 74.7 990.0 89.4 89.4 12 840.0 0.0 0.0 1960.0 59.3 59.3 1080.0 93.8 93.8 13 910.0 0.0 0.0 1120.0 0.0 0.0 1170.0 86.6 87.2 14 980.0 0.0 0.0 1120.0 0.0 0.0 11350.0 84.6 85.2 16 1120.0 0.0 0.0 1280.0 0.0 0.0 1350.0 84.6 85.2 16 1120.0 0.0 0.0 1360.0 0.0 0.0 1440.0 79.9 80.9 17 1190.0 0.0 0.0 1350.0 0.0 0.0 1150.0 58.3 59.3 18 1260.0 0.0 0.0 1350.0 0.0 0.0 11710.0 86.6 87.2 20 1440.0 0.0 0.0 1360.0 0.0 0.0 11710.0 86.7 21 1470.0 0.0 0.0 1680.0 0.0 0.0 11800.0 74.3 75.5 21 1470.0 0.0 0.0 1680.0 0.0 0.0 11800.0 74.3 75.5 22 1360.0 0.0 0.0 1760.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 24 1680.0 0.0 0.0 1240.0 0.0 0.0 1280.0 0.0 0.0 1280.0 0.0 25 11750.0 0.0 0.0 1240.0 0.0 0.0 1280.0 0.0 0.0 0.0 26 1820.0 0.0 0.0 12240.0 0.0 0.0 12250.0 0.0 0.0 27 1890.0 0.0 0.0 12260.0 0.0 0.0 12260.0 0.0 0.0 31 12170.0 0.0 0.0 12240.0 0.0 0.0 12250.0 0.0 0.0 32 12340.0 0.0 0.0 12480.0 0.0 0.0 12260.0 0.0 0.0 33 12310.0 0.0 0.0 12480.0 0.0 0.0 13260.0 0.0 0.0 34 12390.0 0.0 0.0 12480.0 0.0 0.0 13260.0 0.0 0.0 35 12470.0 0.0 0.0 12480.0 0.0 0.0 13260.0 0.0 0.0 36 12500.0 0.0 0.0 12480.0 0.0 0.0 13260.0 0	1	3	210.0	94.5	•	ł	•	•	98.6	•	115.4	106.8
6	1	4	280.0	94.0	85.4	-	•	•	:	•	•	•
7 490.0 72.6 69.4 560.0 95.4 92.2 630.0 103.5 101.6 3 560.0 73.5 70.3 640.0 89.1 87.2 720.0 98.6 97.8 9 630.0 57.1 55.2 720.0 74.3 73.5 810.0 103.0 102.2 10 700.0 0.0 0.0 800.0 83.7 82.9 900.0 95.1 95.1 11 770.0 0.0 0.0 800.0 75.5 74.7 990.0 89.4 89.4 12 840.0 0.0 0.0 1040.0 0.0 0.0 1170.0 86.6 87.2 14 980.0 0.0 0.0 1120.0 0.0 0.0 11260.0 81.8 82.4 15 1050.0 0.0 0.0 1280.0 0.0 0.0 11350.0 84.6 85.2 16 1120.0 0.0 0.0 1360.0 0.0 0.0 11530.0 58.3 59.3 18 1260.0 0.0 0.0 1360.0 0.0 0.0 11530.0 58.3 59.3 18 1260.0 0.0 0.0 1600.0 0.0 0.0 1170.0 80.7 81.7 20 1400.0 0.0 0.0 1680.0 0.0 0.0 11800.0 74.3 75.5 21 1470.0 0.0 0.0 1680.0 0.0 0.0 11800.0 74.3 75.5 22 1540.0 0.0 0.0 11840.0 0.0 0.0 11980.0 66.6 67.8 23 1610.0 0.0 0.0 1200.0 0.0 0.0 1290.0 0.0 0.0 1290.0 0.0 25 1750.0 0.0 0.0 12080.0 0.0 0.0 12250.0 0.0 0.0 26 1820.0 0.0 0.0 1220.0 0.0 0.0 1220.0 0.0 0.0 27 1890.0 0.0 0.0 1240.0 0.0 0.0 1230.0 0.0 0.0 28 1960.0 0.0 0.0 1240.0 0.0 0.0 12250.0 0.0 0.0 31 2170.0 0.0 0.0 1240.0 0.0 0.0 12250.0 0.0 0.0 32 12240.0 0.0 0.0 12480.0 0.0 0.0 12260.0 0.0 0.0 33 12310.0 0.0 0.0 12880.0 0.0 0.0 12360.0 0.0 0.0 34 12380.0 0.0 0.0 12880.0 0.0 0.0 13330.0 0.0 0.0 35 12470.0 0.0 0.0 12880.0 0.0 0.0 13300.0 0.0 0.0 36 12590.0 0.0 0.0 12880.0 0.0 0.0 13300.0 0.0 0.0 37 12590.0 0.0 0.0 12880.0 0.0 0.0 13600.0 0.0 0.0 39 12730.0 0.0 0.0 12880.0 0.0 0.0 13500.0 0.0 0.0 39 12730.0 0.0 0.0 1	١	5		:		1	•	•	: :	•	Ĭ	
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22 1540.0 0.0 0.0 1760.0 0.0 1980.0 66.6 67.8 23 1610.0 0.0 0.0 1840.0 0.0 0.0 12070.0 0.0 0.0 24 1680.0 0.0 0.0 1920.0 0.0 0.0 12160.0 0.0 0.0 0.0 25 1750.0 0.6 0.0 2000.0 0.0 0.0 12250.0 0.0 0.0 0.0 25 1820.0 0.0 0.0 2080.0 0.0 0.0 2340.0 0.0 0.0 0.0 27 1890.0 0.0 0.0 2160.0 0.0 0.0 2430.0 0.0 0.0 28 1960.0 0.0 0.0 2240.0 0.0 0.0 2520.0 0.0 0.0 29 2030.0 0.0 0.0 2320.0 0.0 0.0 2520.0 0.0 0.0 2320.0 0.0 0.0 2790.0 0.0 0.0 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 0.0 0.0 32 2340.0 0.0 0.0 2560.0 0.0 0.0 2880.0 0.0 0.0 34 12380.0 0.0 0.0 2260.0 0.0 0.0 2880.0 0.0 0.0 35 2440.0 0.0 0.0 2880.0 0.0 0.0 36 2520.0 0.0 0.0 2880.0 0.0 0.0 37 2590.0 0.0 0.0 2880.0 0.0 0.0 38 2660.0 0.0 0.0 2880.0 0.0 0.0 38 2660.0 0.0 0.0 3040.0 0.0 0.0 3350.0 0.0 0.0 3400.0 0.0 0.0 3420.0 0.0 0.0 37 2590.0 0.0 0.0 3120.0 0.0 0.0 3120.0 0.0 0.0 3200.0 0.0 0.0 3350.0 0.0 0.0 0.0 3400.0 0.0 0.0 3120.0 0.0 0.0 3120.0 0.0 0.0 3120.0 0.0 0.0 3120.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 0.0 31200.0 0.0 0.0 0.0 31200.0 0.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0 31200.0 0.0 0.0	!				:	•	•		•	•	•	
23	1	•	•		•		•			•	•	
24 1680.0 0.0 0.0 1920.0 0.0 0.0 2160.0 0.0 0.0 25 1750.0 0.0 0.0 2000.0 0.0 0.0 2250.0 0.0 0.0 0.0 26 1820.0 0.0 0.0 2080.0 0.0 0.0 2340.0 0.0 0.0 0.0 27 1890.0 0.0 0.0 2160.0 0.0 0.0 2430.0 0.0 0.0 0.0 28 1960.0 0.0 0.0 2240.0 0.0 0.0 2520.0 0.0 0.0 0.0 29 2030.0 0.0 0.0 2320.0 0.0 0.0 2610.0 0.0 0.0 30 2100.0 0.0 0.0 2440.0 0.0 0.0 2700.0 0.0 0.0 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 0.0 0.0 32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 0.0 0.0 33 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 0.0 0.0 34 2380.0 0.0 0.0 2720.0 0.0 0.0 35 2430.0 0.0 0.0 2880.0 0.0 0.0 36 2520.0 0.0 0.0 2880.0 0.0 0.0 3330.0 0.0 0.0 38 2660.0 0.0 0.0 2880.0 0.0 0.0 3330.0 0.0 0.0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0 40 2800.0 0.0 0.0 33200.0 0.0 0.0 3600.0 0.0 0.0 0.0 39 2730.0 0.0 0.0 3220.0 0.0 0.0 3600.0 0.0 0.0 3220.0 0.0 0.0 0.0 3220.0 0.0 0.0 0.0 32200.0 0.0 0.0 32200.0 0.0 0.0 32200.0 0.0 0.0 32200.0 0.0 0.0 0.0 32200.0 0	!		•		:	•	•			•	•	: :
25	1	•	•		•					•	•	
26	1		•		,		•		, ,	•	:	:
27 1890.6 0.0 0.0 2160.0 0.0 0.0 2430.0 0.0 0.0 28 1960.0 0.0 0.0 2240.0 0.0 0.0 2520.0 0.0 0.0 29 2030.6 0.0 0.0 2320.0 0.0 0.0 2610.0 0.0 0.0 30 2100.0 0.0 0.0 2400.0 0.0 0.0 2700.0 0.0 0.0 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 0.0 0.0 32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 0.0 0.0 33 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 0.0 0.0 34	1	•	•	:	•						:	: :
28 1960.0 0.0 0.0 2240.0 0.0 0.0 2520.0 0.0 0.0 29 2030.0 0.0 0.0 2320.0 0.0 0.0 2610.0 0.0 0.0 30 2100.0 0.0 0.0 2400.0 0.0 0.0 2700.0 0.0 0.0 31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 0.0 0.0 32 2340.0 0.0 0.0 2560.0 0.0 0.0 2880.0 0.0 0.0 33 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 0.0 0.0 34 2380.0 0.0 0.0 2720.0 0.0 0.0 3060.0 0.0 0.0 35 2450.0 0.0 0.0 2880.0 0.0 0.0 3150.0 0.0 0.0 36 2520.0 0.0 0.0 2880.0 0.0 0.0 3150.0 0.0 0.0 37 2590.0 0.0 0.0 2880.0 0.0 0.0 3330.0 0.0 0.0 38 2660.0 0.6 0.0 3040.0 0.0 0.0 3420.0 0.0 0.0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 0.0 3420.0 0.0 0.0 0.0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.	i			:	:						Ī	
29 2030.0 0.0 0.0 2320.0 0.0 0.0 2610.0 0.0 0.0 30 2100.0 0.0 0.0 2400.0 0.0 0.0	i	•	•	,							•	: :
30 2100.0 0.0 0.0 2400.0 0.0 0.0 2700.0 0.0 0.0 31 2170.0 0.0 0.0 2480.0 0.0 0.0	i		•	:		•		'	•	•		
31 2170.0 0.0 0.0 2480.0 0.0 0.0 2790.0 0.0 0.0 32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 0.0 0.0 0.0 33 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 0.0 0.0 34 2380.0 0.0 0.0 2720.0 0.0 0.0 3060.0 0.0 0.0 35 2450.0 0.0 0.0 2880.0 0.0 0.0 3150.0 0.0 0.0 36 2520.0 0.0 0.0 2880.0 0.0 0.0	1	•	•	•	•		•			•		: :
32 2240.0 0.0 0.0 2560.0 0.0 0.0 2880.0 0.0 0.0 33	i		•			ï	•			* ·	•	:
33 2310.0 0.0 0.0 2640.0 0.0 0.0 2970.0 0.0 0.0 34 2380.0 0.0 0.0	i			•	•	i	•					
34 2380.0 0.0 0.9 2720.0 0.0 0.0 3060.0 0.0 0.0 35 2470.0 0.0 0.0 2800.0 0.0 0.0 3150.0 0.0 0.0 36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 0.0 0.0 37 2590.0 0.0 0.0 2960.0 0.0 0.0 3330.0 0.0 0.0 38 2660.0 0.6 0.0 3040.0 0.0 0.0 3420.0 0.0 0.0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3200.0 0.0 3600.0 0.0 0.0 313.8 32600.0 0.0 0.0 13800.0 0.0 0.0 3600.0 0.0 3600.0 3600.0 3600.0 3600.0 3600.0 3600.0 3600.0 3600.0 3600.0 3600.0 3600.0 36	i	•								•	:	: :
35 2470.0 0 0 0.0 2800.0 0.0 0.0 3150.0 0.0 0.0 36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 0.0 0.0 37 2590.0 0.0 0.0 2960.0 0.0 0.0 3330.0 0.0 0.0 38 2660.0 0.6 0.0 3040.0 0.0 0.0 3420.0 0.0 0.0 39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 3600.0 3600.0 0.0 3600.0 0.0 3600.0 3600.0 3600.0 3600.0 3600.0 3600.0 3600.0 3600.0 3	i	-			:	•			:	:		
36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 0.0 0.0 37 2590.0 0.0 0.0 2960.0 0.0 0.0	i				:					•		
37	i		•			•				•		0.0
38 2660.0 0.6 0.0 3040.0 0.0 0.0 3420.0 0.0 0.0 39 12730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0	į	•	•	•	•	•				•	:	
39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 0.0 0.0 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 0.0 40 13600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 40 13600.0 0.0 0.0 3600.0 0.0 0.0 40 13600.0 0.0 0.0 3200.0 0.0 0.0 3600.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 0.0 3510.0 0.0 0.0 0.0 0.0 3510.0 0.0 0.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 0.0 3600.0 0.0 0.0 0.0 0.0 0.0 0.0 3600.0 0.0	i									•		
OASPL 113.1 92.8	i		•	0.0						•		
OASPL 113.1 92.8	İ					,		,		•	•	, ,
OASPL 113.1 92.8	+											
	+			•						•	-	
	+										•	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 19.9 DEG)

	•	+ 				DATA-	POINT /	RUN				
+		EN-	-1 / :	163	 -	EN	-2 / :	164		EN	-3 /	165 +
HN	į	F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA
1	i	70.0	109.6	83.4	1	80.0	114.2	91.7		90.0	119.6	100.5
2	1	140.0	96.5	•	-	•	103.8	90.4			114.3	103.4
3	ļ	210.0	86.4	75.5	1	240.0	99.3	90.7		270.0	100.6	92.0
4	ļ	280.0	74.0	65.4	ļ	320.0	92.6	86.0		360.0	104.5	99.7
5	ļ	350.0	0.0	0.0	ļ	400.0	78.0	73.2		450.0	97.7	94.5
6	ļ	420.0	0.0	0.0	!	480.0	71.7	68.5		540.0	90.8	87.6
7	ļ	490.0	0.0	0.0	ļ	560.0	0.0	0.0		630.0	0.0	0.0
8	ļ	560.0	0.0	0.0	!	640.0	0.0	0.0		720.0	0.0	0.0
9	ļ	630.0	0.0	0.0	١.	720.0	0.0	0.0		810.0	0.0	0.0
10	ļ	700.0	0.0	0.0		800.0	0.0	0.0		900.0	0.0	0.0
11	1	770.0	0.0	0.0	֓֞֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֜֜֓֡֓֡֓֜֓֓֡֓֜֡֡֡֡֡֡	880.0	0.0	0.0		990.0	0.0	0.0
12	!	840.0	0.0	0.0		960.0	0.0	•		1080.0	0.0	0.0
13	!	910.0	0.0		•	1040.0	0.0	•		1170.0	0.0	0.0
14		980.0	0.0			1120.0	0.0	•		1260.0 1350.0	0.0 0.0	0.0
15	•	1050.0	0.0		•	1200.0	0.0	•		1440.0	•	0.0
:	•	1120.0	0.0 0.0		: :	1280.0	0.0	•		1530.0	0.0 0.0	0.0
1 17		1190.0 1260.0	0.0		: :	1360.0 1440.0	0.0	0.0 0.0		1620.0	0.0	0.0
18	•	1330.0	0.0		: :	1520.0	0.0	0.0		1710.0	0.0	0.0
20	1	1400.0	0.0			1600.0	0.0	0.0		1800.0	0.0	0.0
21	!	1470.0	0.0			1680.0	0.0	0.0		1890.0	0.0	0.0
22		1540.0	0.0		•	1760.0	0.0	•		1980.0	0.0	0.0
•	•	1610.0	0.0			1840.0	0.0	•		2070.0	0.0	0.0
24	•	1680.0	0.0		: :	1920.0	0.0	0.0		2160.0	0.0	0.0
25	•	1750.0	0.0		: :	2000.0	0.0		i	2250.0	0.0	0.0
26	•	1820.0	0.0		: :	2080.0	0.0		•	2340.0	0.0	0.0
	•	1890.0	0.0	•	•	2160.0	0.0			2430.0	0.0	0.0
28	-	1960.0	0.0			2240.0	0.0		•	2520.0	0.0	0.0
29	•	2030.0	0.0		•	2320.0	0.0			2610.0	0.0	0.0
30	•	2100.0	0.0	0.0		2400.0	0.0		:	2700.0	0.0	0.0
31	İ	2170.0	0.0	0.0		2480.0	0.0			2790.0	0.0	0.0
32	Ì	2240.0	0.0	0.0	Ì	2560.0	0.0	0.0 j	İ	2880.0	0.0	0.0
•	- 7	2310.0				2640.0			Ì	2970.0		
34		2380.0	0.0	0.0	Ì	2720.0	0.0	0.0	I	3060.0	0.0	0.0
•	•	2450.0		0.0		2800.0	0.0			3150.0	•	0.0
•	•	2520.0		0.0		2880.0	0.0	•		3240.0	•	0.0
•	•	2590.0				2960.0				3330.0	•	0.0
•	•	2660.0				3040.0				3420.0	•	•
•	•	2730.0				3120.0						
		2800.0										
		ASPI.		85.7								
		ASPL						96.2 			120.9 +	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN											
+	•+	 EN	-1 /	163 +		EN	-2 /		 -	EN	i-3 /	165
HN	<u> </u>	F	SPL	SPLA		F	SPL	SPLA		F 	SPL	SPLA
1	İ	:	107.7	81.5				92.3			•	93.0
2	!	•	104.9	88.8		•	111.2	97.8	• •		•	103.0
3	!	•	100.0	89.1	1	•	110.4	101.8		0.0	113.5	1104.9
4	1	280.0	95.8	87.2	1	•	•	1101.1			•	108.6
5		350.0 420.0	90.8 87.8	84.2 83.0	!	•	103.3	100.5 98.9	• •		•	109.6 109.7
1 7	-	420.0	83.8	80.6	!	•	102.1	96.8			•	1109.7
1 8	ł	560.0	63.6	75.5	1	640.0	:	96.8			1	1111.0
0	1		0.0	:		:	95.9	95.1	• •		•	111.0
1 10	1	: <u>-</u>	0.0	0.0	1	800.0	93.4	92.6			1	110.3
111		:	0.0	0.0		880.0	90.6	89.8			•	108.5
1 12	Ï		0.0	0.0	i	960.0	87.4	•	1 108			107.4
13	¦	910.0	0.0	0.0	ì	1040.0	84.5	•	100		106.2	106.8
14	¦	980.0	0.0	0.0		1120.0	82.8	•	126		104.9	105.5
1 15	i	1050.0	0.0	0.0	•	1200.0	79.6	•	135		104.0	104.6
1 16	i	1120.0	0.0	0.0	•	1280.0	77.4	78.0		0.0	102.5	103.5
1 17	i	1190.0	0.0	0.0		1360.0	74.7	75.3	153		100.9	101.9
18	•	1260.0	0.0	•	•	1440.0	73.0		162		100.2	101.2
19	•	1330.0	0.0	,	•	1520.0	69.5	•	171		98.5	99.5
20		1400.0	0.0	•	•	1600.0	65.2	•	180		97.6	98.8
21		1470.0	0.0	•	•	1680.0	0.0	0.0			96.7	97.9
22	•	1540.0	0.0	•	•	1760.0	0.0	•	198		95.0	96.2
23		1610.0	0.0	•		1840.0	0.0	•	207		94.3	95.5
24	•	1680.0	0.0	•	•	1920.0	0.0	0.0			92.4	93.6
25		1750.0	0.0		•	2000.0	0.0	0.0	•		90.6	j 91.9 j
26		1820.0	0.0	•	•	2080.0	0.0	0.0			90.2	91.5
27	- 1	1890.0	0.0	0.0	ĺ	2160.0	0.0	j 0.0 j	243	0.0	88.8	90.1
28	Ì	1960.0	0.0	0.0	1	2240.0	0.0	0.0	252	0.0	88.7	90.0
29	1	2030.0	0.0	0.0		2320.0	0.0	0.0	261	0.0	87.5	88.8
30	•	2100.0	0.0	•	•	2400.0	0.0	0.0	•	0.0	87.6	88.9
•	•	2170.0	0.0	•		2480.0	0.0	0.0			85.9	87.2
		2240.0		*	•	2560.0						86.8
•	•	2310.0			•	2640.0			•		•	85.5
•	•	2380.0				2720.0		•				84.6
-	-	2450.0			Ξ.	2800.0			•		•	84.5
•	-	2520.0				2880.0						82.4
		2590.0				2960.0						82.6
-	-	2660.0			•	3040.0			•		•	•
•	•	2730.0				3120.0		•			7	•
•	•	2800.0				3200.0			•			
+	+-	•				+			-			-
+	· - ·					+						
1	U/	49LP	110.2	94.5	ا انت	 +	118.3	C - 2	<u> </u>		1123.2	120.3
·					7	r		-			T	T

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

DIAM I KOLDEREN MOIDE IEDI

MICROPHONE: MP 7 (PITCH ANGLE: 19.9 DEG)

	+			DATA-	POINT /	RUN			
++	 EN	-1 /	163		-2 / +	164		-3 /	165
HN	F	SPL	SPLA	 F 	SPL	SPLA	 F -	SPL	SPLA
1 1	70.0	109.6	83.4	80.0	114.2	91.7		•	100.5
	140.0	96.5	•	160.0	103.8	•		•	103.4
3	210.0	86.4	•	240.0	99.3			100.6	92.0
4	280.0	74.0	<u>.</u>	320.0	92.6	86.0		104.5	99.7
5	350.0	0.0		400.0	78.0	73.2	450.0	97.7	94.5
6	420.0	0.0	0.0	480.0	71.7	68.5	540.0	90.8	87.6
1 7 1	490.0	0.0	0.0	560.0	0.0	0.0	630.0	0.0	0.0
8	560.0	0.0	0.0	640.0	0.0	0.0	720.0	0.0	0.0
9	630.0	0.0	•	720.0	0.0	0.0	810.0	0.0	0.0
10	700.0	0.0	•	800.0	0.0		900.0	0.0	0.0
11	770.0	0.0	•	880.0	0.0	0.0	990.0	0.0	0.0
12	840.0	0.0	•	960.0	0.0	:	1080.0	0.0	0.0
13	910.0	0.0	•	1040.0	0.0	•	1170.0	0.0	0.0
	980.0	0.0	•	1120.0 1200.0	0.0	•	11260.0	0.0	0.0
	1050.0 1120.0	0.0 0.0	•	1280.0	0.0	•	1350.0 1440.0	0.0	
	1120.0	1	•	1260.0	0.0		1530.0	0.0	: :
	11260.0	0.0	•	1440.0	0.0	•	1620.0	0.0 0.0	0.0 0.0
•	1330.0	0.0	•	1520.0	0.0	•	1710.0	0.0	0.0
	11400.0	0.0		[[1600.0	0.0		1800.0	0.0	0.0
	1470.0	0.0		1680.0	0.0	•	1890.0	0.0	0.0
	1540.0	0.0		1760.0	0.0	: :	1980.0	0.0	0.0
	1610.0	0.0	•	1840.0	0.0		2070.0	0.0	0.0
	1680.0	0.0	,	1920.0	0.0	•	2160.0	0.0	0.0
	1750.0	0.0		2000.0	0.0		2250.0	0.0	0.0
	1820.0	0.0		2080.0	0.0	•	2340.0	0.0	0.0
	1890.0	0.0		2160.0	0.0		2430.0	0.0	0.0
	1960.0	0.0	•	2240.0	0.0		2520.0	0.0	0.0
	2030.0	0.0		2320.0	0.0	•	2610.0	0.0	0.0
	2100.0	0.0		2400.0	0.0	: :	2700.0	0.0	0.0
	2170.0	0.0		2480.0	0.0		2790.0	0.0	0.0
32	2240.0	0.0		2560.0	0.0		2880.0	:	: :
	2310.0			2640.0	0.0	•	2970.0	•	: :
	2380.0			2720.0	•	•	3060.0	•	
	2450.0			2800.0	•	•	3150.0	•	: :
	2520.0		0.0	2880.0	0.0		3240.0		: :
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	•	: :
38	2660.0	0.0		3040.0		0.0	3420.0		: :
							3510.0		
	-				-		3600.0	•	
+		+		+	+	++	+	+	
			85.7			96.2	 		106.7

F - FREQUENCY HZ

SPI, - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 19.9 DEG)

+	.+-	i En	DATA-POINT / RUN												
			-1 / +	163	1	EN.	-2 /	164	EN	-3 /	165				
HN	1	F +	SPL	SPLA		F +	SPL	SPLA	F	SPL	SPLA				
1 1 2	-	•	107.7 104.9	81.5			114.8	92.3	•	:	93.0 103.0				
2	1	210.0	100.0	89.1	1	•	111.2 110.4	101.8	•	•	1103.0				
1 4	ł	280.0	95.8	87.2	ł	!	•	101.0		•	108.6				
5	ľ	350.0	90.8	84.2	i	•	•	100.5	•	7	100.6				
1 6	i	420.0	87.8	83.0	ì	•	102.1	98.9		•	109.7				
i 7	i	490.0	83.8	80.6	i		100.0	96.8	•	•	110.6				
8	į.	560.0	78.7	75.5	į.	640.0	98.0		720.0	•	111.0				
9	i	630.0	0.0	0.0	i	720.0	95.9	95.1		-	110.3				
i 10	i	700.0	0.0	0.0	i	800.0	93.4	: :	•	•	109.3				
j 11	i		0.0	0.0	i	880.0	90.6	89.8	•	•	108.5				
12	i	840.0	0.0	0.0	İ	960.0	87.4	87.4	1080.0	107.4	107.4				
13	Ĺ	910.0	0.0	0.0	İ	1040.0	84.5	84.5	1170.0	106.2	106.8				
14	1	980.0	0.0	0.0	1	1120.0	82.8	82.8	1260.0	104.9	105.5				
15		1050.0	0.0	0.0	1	1200.0	79.6	80.2	1350.0	104.0	104.6				
16		1120.0	0.0	0.0		1280.0	77.4	78.0	1440.0	•	103.5				
17	•	1190.0	0.0	0.0	•	1360.0	74.7	75.3	1530.0	•	101.9				
18	•	1260.0	0.0	0.0	•	1440.0	73.0	74.0	•	•	101.2				
1 19	•	1330.0	0.0	0.0		1520.0	69.5	70.5	1710.0	98.5	99.5				
20	•	1400.0	0.0	0.0		1600.0	65.2	66.2	1800.0	97.6	98.8				
21	•	1470.0	0.0	•		1680.0	0.0	• :	1890.0	96.7	97.9				
22	•	1540.0	0.0	•	•	1760.0	0.0		1980.0	95.0	96.2				
23	•	1610.0	0.0		•	1840.0	0.0	•	2070.0	94.3	95.5				
24	•	1680.0	0.0	:		1920.0	0.0	•	2160.0	92.4	93.6				
25		1750.0	0.0		- 1	2000.0	0.0	' :	2250.0	90.6	91.9				
26		1820.0	0.0	•		2080.0 2160.0	0.0	: :	2340.0 2430.0	90.2	91.5 90.1				
28	•	1890.0 1960.0	0.0	0.0 0.0		2240.0	0.0	0.0 0.0	2520.0	88.7	90.0				
29		2030.0	0.0	0.0		2320.0	0.0	0.0	2610.0	87.5	88.8				
30		2100.0	0.0	0.0		2400.0	0.0	0.0	2700.0	87.6	88.9				
•	•	2170.0	0.0			2480.0	0.0	0.0	2790.0	85.9	87.2				
		2240.0				2560.0			2880.0						
		2310.0				2640.0			2970.0						
•		2380.0				2720.0			3060.0						
•		2450.0				2800.0	,	•	3150.0	83.3	84.5				
36	П	2520.0	0.0	0.0	H	2880.0	0.0	0.0	3240.0	81.2	82.4				
		2590.0							3330.0						
		2660.0							3420.0						
	39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 78.4 79.6 40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 78.0 79.0														
		2800.0													
									+						
1	O.	ASPL	110.2	94.5			118.3	108.5	+ 	123.2	120.3				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

	-	+ I			DATA-	POINT /	RUN			+ 	
		EN	-1 / :	163	EN	·		EN	-3 /	165	
+	+ N	+ F	SPL	SPLA	F	SPL	SPLA !	+	SPL	SPLA	
	1	70.0	+ 107.8	81.6	80.0	115.0	92.5	90.0	114.8	95.7	
Ì	2	140.0	105.4	89.3	160.0	108.9	95.5	180.0	110.8	99.9	
!	3	210.0	94.7	83.8	240.0	108.0	99.4	270.0	117.3	108.7	
ļ	4	280.0	98.2	89.6	320.0	108.7	102.1	360.0	114.2	109.4	
1	5	350.0	93.8	87.2	400.0	101.5	96.7	450.0	1111.5	108.3	
	6	420.0	84.4	79.6	480.0	100.6	97.4	540.0	115.0	111.8	
1	7	490.0	81.1	77.9	560.0	101.4	98.2	630.0	110.6	108.7	
1	8	560.0	81.8	78.6	640.0	96.2	94.3	720.0	111.1	110.3	
1	9	630.0	76.2	74.3	720.0	91.5	90.7	810.0	111.9	111.1	
	0	700.0	69.0	67.1	800.0	93.7	92.9	900.0		106.5	
•	1	770.0	0.0	0.0	880.0	87.6	86.8	•	•	108.4	
•	2	840.0	0.0	0.0	960.0	84.4	84.4	•	•	108.1	
•	3	910.0	0.0	0.0	1040.0	85.4		•	•	106.5	
	4		0.0	0.0	1120.0	80.3	: :	1260.0	•	104.7	
:	•	1050.0	0.0	0.0	1200.0	80.1	: :	1350.0	•	105.8	
- 1		1120.0	0.0		1280.0	74.9	: :	1440.0	•	104.0	
	•	1190.0	0.0		1360.0	71.9	•	1530.0	99.8	100.8	
:		1260.0	0.0	0.0	1440.0	73.0	: :	11620.0	102.1	103.1	
•		1330.0	0.0	0.0	1520.0	68.1	: :	1710.0	98.3	99.3	
•	0	1400.0	0.0	0.0	11600.0	0.0		1800.0	98.0	99.2	
•	•	1470.0	0.0	0.0	11680.0	0.0	: :	1890.0	98.4	99.6	
•	•	1540.0	0.0	0.0	1760.0	0.0	•	1980.0	94.4	95.6	
•	•	1610.0	0.0		11840.0	0.0	: :	2070.0	96.2 96.6	97.4	
•	•	1680.0 1750.0	0.0		1920.0 2000.0	0.0 0.0	,	2160.0 2250.0	86.7	97.8 88.0	
	•	1820.0	0.0 0.0	0.0	2080.0	0.0	•	2340.0	95.4	96.7	
•		1890.0	0.0		2160.0	0.0	:	2430.0	91.7	93.0	
	•	1960.0	0.0		2240.0	0.0	•	2520.0	89.2	90.5	
:	•	2030.0	0.0	0.0	2320.0	0.0		2610.0	91.8	93.1	
•		2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	88.1	89.4	
•		2170.0	0.0	0.0	2480.0	0.0		2790.0	88.5	89.8	
		2240.0	•		2560.0	0.0	•	2880.0	88.8		
	- 1	2310.0			2640.0	0.0		2970.0	:	i i	
	- 1	2380.0	:		2720.0	0.0	•	3060.0	<u> </u>	88.5	
•	•	2450.0			2800.0	0.0	•	3150.0	•	87.8	
•		2520.0			2880.0	0.0	•	3240.0		88.6	
•	•	2590.0			2960.0	0.0	•	3330.0		83.2	
3		2660.0			3040.0	•	: :	3420.0		1	
•	39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 85.0 86.2										
j 4	40 2800.0 0.0 0.0 3200.0 0.0 0.0 3600.0 78.4 79.4										
•			h		+		•	-	•	++	
+					+						
1				94.7	•	•	107.4	•	•	120.4	
+			h		+		++	+	+	++	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 23.7 DEG)

	-	+ 			-	DATA-	POINT /	RUN			
+	. +-	EN	-4 /	160 +	1	-	-5 / :	•	EN	-6 /	162 +
HN	1	F	SPL	SPLA	ļ	F	SPL	SPLA	F	SPL	SPLA
1	į	:	103.8	•	İ	:	106.9		80.0	109.6	87.1
2	!	:	93.5	77.4	ļ	!	97.7		160.0	107.6	94.2
3	!	•	85.4	74.5	ļ	•	97.0	86.1	240.0	106.9	98.3
4	ļ	240.0	81.5	72.9	1	280.0	91.9	83.3	320.0	104.1	97.5
5	!	300.0	66.4	59.8	I	350.0	85.8	79.2	400.0	102.2	97.4
6	ļ	360.0	68.3	63.5	ļ	420.0	84.2	79.4	480.0	98.2	95.0
1 7	ļ	420.0	62.1	57.3	ļ	490.0	76.7	73.5	560.0	93.7	90.5
1 8	ļ	480.0	56.2	53.0	ļ	560.0	68.9		640.0	93.7	91.8
9	!	540.0	0.0	0.0	1	630.0	69.4	67.5	720.0	91.1	90.3
10			0.0		-		63.0	61.1	800.0 880.0	87.9	87.1 84.2
11 12		660.0 720.0	0.0	0.0	1		0.0 0.0		880.0 960.0	85.0 82.6	82.6
13			0.0	0.0	ŀ	910.0	0.0		1040.0	80.2	80.2
14	1		0.0 0.0	0.0	ŀ	980.0	0.0	•	11120.0	74.8	30.2 74.8
1 15			:		i	1050.0	0.0		1120.0	69.2	69.8
1 16	1	960.0	0.0	•	•	1120.0	0.0		1280.0	67.6	68.2
1 17		1020.0	0.0	0.0	•	1120.0	0.0	•	1360.0	66.4	67.0
1 18		1080.0	0.0	0.0	•	1260.0	0.0		1440.0	63.8	64.8
1 19	•	1140.0	0.0	•	•	1330.0	0.0		1520.0	63.3	64.3
20		1200.0	0.0		•	1400.0	0.0		1600.0	0.0	0.0
21	-	1260.0	0.0	•	•	1470.0	0.0		1680.0	0.0	0.0
•	•	1320.0	0.0	•	•	1540.0	0.0	. ,	1760.0	0.0	0.0
•	•	1380.0	0.0	•	•	1610.0	0.0		1840.0	0.0	0.0
•		1440.0	0.0	•	•	1680.0	0.0		1920.0	0.0	0.0
•	•	1500.0	0.0	•	•	1750.0	0.0		2000.0	0.0	0.0
•	,	1560.0	0.0	•	•	1820.0	0.0		2080.0	0.0	0.0
27		1620.0	0.0	•	•	1890.0	0.0		2160.0	0.0	0.0
28		1680.0	0.0	•	•	1960.0	0.0		2240.0	0.0	0.0
29		1740.0	0.0	0.0		2030.0	0.0		2320.0	0.0	i 0.0 i
j 30		1800.0	0.0	0.0	•	2100.0	0.0		2400.0	0.0	0.0
31		1860.0	0.0			2170.0	0.0		2480.0	0.0	0.0
32		1920.0			ĺ	2240.0	0.0		2560.0	0.0	0.0 j
		1980.0				2310.0			2640.0		
		2040.0				2380.0		0.0	2720.0	0.0	: :
35	H	2100.0				2450.0		0.0	2800.0	0.0	0.0
		2160.0		0.0		2520.0	0.0		2880.0		0.0
37	H	2220.0	0.0	0.0		2590.0	0.0	0.0	2960.0	0.0	0.0
		2280.0				2660.0			3040.0		0.0
									3120.0		
									3200.0		0.0
+									+		++
+ 									+ 		
÷			 		+-	+			+	+	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 23.7 DEG)

120.0 180.0 240.0 300.0 360.0 420.0 480.0 540.0 600.0 720.0 780.0 840.0 900.0 960.0 1020.0 1080.0	-4 / +	83.3 83.0 77.5 73.8 66.7 65.6 65.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	+	F 70.0	-5 / +	SPLA 84.0 89.4 91.0 89.5 86.4 85.1 84.4 75.6 76.2 69.5 66.9 63.5 0.0	F 80.0 160.0 240.0 320.0 400.0 480.0 560.0 640.0 720.0 880.0 960.0 1040.0 1120.0	SPL 112.4 112.7 110.5 107.4 106.5 105.5 102.4 100.2 96.7 96.4 94.8 91.9 88.5 86.1	162 +			
60.0 120.0 180.0 240.0 300.0 360.0 420.0 480.0 540.0 600.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0 1080.0	105.1 99.4 93.9 86.1 80.4 71.5 70.4 68.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	78.9 83.3 83.0 77.5 73.8 66.7 65.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	+	70.0 140.0 210.0 280.0 350.0 420.0 490.0 560.0 630.0 770.0 840.0 910.0 980.0 1050.0	110.2 105.5 101.9 98.1 93.0 89.9 87.6 78.8 78.1 71.4 67.7 64.3 0.0 0.0	84.0 89.4 91.0 89.5 86.4 85.1 84.4 75.6 76.2 69.5 66.9 63.5 0.0	80.0 160.0 240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	112.4 112.7 110.5 107.4 106.5 105.5 102.4 100.2 96.7 96.4 94.8 91.9 88.5 86.1	89.9 99.3 101.9 100.8 101.7 102.3 99.2 98.3 95.9 95.6 94.0 91.9 88.5			
120.0 180.0 240.0 300.0 360.0 420.0 480.0 540.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0 1080.0	99.4 93.9 86.1 80.4 71.5 70.4 68.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	83.3 83.0 77.5 73.8 66.7 65.6 65.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0		140.0 210.0 280.0 350.0 420.0 490.0 560.0 630.0 770.0 770.0 840.0 910.0 980.0	105.5 101.9 98.1 93.0 89.9 87.6 78.8 78.1 71.4 67.7 64.3 0.0 0.0	89.4 91.0 89.5 86.4 85.1 84.4 75.6 76.2 69.5 66.9 63.5 0.0 0.0	160.0 240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	112.7 110.5 107.4 106.5 105.5 102.4 100.2 96.7 96.4 94.8 91.9 88.5 86.1	99.3 101.9 100.8 101.7 102.3 99.2 98.3 95.6 94.0 91.9 88.5			
180.0 240.0 300.0 360.0 420.0 480.0 540.0 600.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0	93.9 86.1 80.4 71.5 70.4 68.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	83.0 77.5 73.8 66.7 65.6 65.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		210.0 280.0 350.0 420.0 490.0 560.0 630.0 770.0 770.0 840.0 910.0 980.0	101.9 98.1 93.0 89.9 87.6 78.8 78.1 71.4 67.7 64.3 0.0 0.0	91.0 89.5 86.4 85.1 84.4 75.6 76.2 69.5 66.9 63.5 0.0	240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	110.5 107.4 106.5 105.5 102.4 100.2 96.7 96.4 94.8 91.9 88.5 86.1	101.9 100.8 101.7 102.3 99.2 98.3 95.9 95.6 94.0 91.9 88.5			
240.0 300.0 360.0 420.0 480.0 540.0 600.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0	86.1 80.4 71.5 70.4 68.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	77.5 73.8 66.7 65.6 65.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		280.0 350.0 420.0 490.0 560.0 630.0 700.0 770.0 840.0 910.0 980.0	98.1 93.0 89.9 87.6 78.8 78.1 71.4 67.7 64.3 0.0 0.0	89.5 86.4 85.1 84.4 75.6 76.2 69.5 66.9 63.5 0.0	320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	107.4 106.5 105.5 102.4 100.2 96.7 96.4 94.8 91.9 88.5 86.1	100.8 101.7 102.3 99.2 98.3 95.9 95.6 94.0 91.9 88.5			
300.0 360.0 420.0 480.0 540.0 600.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0	80.4 71.5 70.4 68.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	73.8 66.7 65.6 65.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		350.0 420.0 490.0 560.0 630.0 700.0 770.0 840.0 910.0 980.0	93.0 89.9 87.6 78.8 78.1 71.4 67.7 64.3 0.0 0.0	86.4 85.1 84.4 75.6 76.2 69.5 66.9 63.5 0.0	400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	106.5 105.5 102.4 100.2 96.7 96.4 94.8 91.9 88.5 86.1	101.7 102.3 99.2 98.3 95.9 95.6 94.0 91.9 88.5			
360.0 420.0 480.0 540.0 600.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0	71.5 70.4 68.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	66.7 65.6 65.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0		420.0 490.0 560.0 630.0 700.0 770.0 840.0 910.0 980.0	89.9 87.6 78.8 78.1 71.4 67.7 64.3 0.0 0.0	85.1 84.4 75.6 76.2 69.5 66.9 63.5 0.0	480.0 560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	105.5 102.4 100.2 96.7 96.4 94.8 91.9 88.5 86.1	102.3 99.2 98.3 95.9 95.6 94.0 91.9 88.5			
420.0 480.0 540.0 600.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0 1080.0	70.4 68.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	65.6 65.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		490.0 560.0 630.0 700.0 770.0 840.0 910.0 980.0	87.6 78.8 78.1 71.4 67.7 64.3 0.0 0.0	84.4 75.6 76.2 69.5 66.9 63.5 0.0	560.0 640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	102.4 100.2 96.7 96.4 94.8 91.9 88.5 86.1	99.2 98.3 95.9 95.6 94.0 91.9 88.5			
480.0 540.0 600.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0 1080.0	68.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	65.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		560.0 630.0 700.0 770.0 840.0 910.0 980.0 1050.0	78.8 78.1 71.4 67.7 64.3 0.0 0.0	75.6 76.2 69.5 66.9 63.5 0.0	640.0 720.0 800.0 880.0 960.0 1040.0 1120.0	100.2 96.7 96.4 94.8 91.9 88.5 86.1	98.3 95.9 95.6 94.0 91.9 88.5			
540.0 600.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0 1080.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		630.0 700.0 770.0 840.0 910.0 980.0 1050.0	78.1 71.4 67.7 64.3 0.0 0.0	76.2 69.5 66.9 63.5 0.0	720.0 800.0 880.0 960.0 1040.0 1120.0	96.7 96.4 94.8 91.9 88.5 86.1	95.9 95.6 94.0 91.9 88.5			
600.0 660.0 720.0 780.0 840.0 900.0 960.0 1020.0 1080.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		700.0 770.0 840.0 910.0 980.0	71.4 67.7 64.3 0.0 0.0	69.5 66.9 63.5 0.0	800.0 880.0 960.0 1040.0 1120.0	96.4 94.8 91.9 88.5 86.1	95.6 94.0 91.9 88.5			
660.0 720.0 780.0 840.0 900.0 960.0 1020.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0		770.0 840.0 910.0 980.0	67.7 64.3 0.0 0.0	66.9 63.5 0.0 0.0	880.0 960.0 1040.0 1120.0	94.8 91.9 88.5 86.1	94.0 91.9 88.5			
720.0 780.0 840.0 900.0 960.0 1020.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0		840.0 910.0 980.0 1050.0	64.3 0.0 0.0 0.0	63.5 0.0 0.0	960.0 1040.0 1120.0	91.9 88.5 86.1	91.9			
780.0 840.0 900.0 960.0 1020.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0		910.0 980.0 1050.0	0.0 0.0 0.0	0.0	1040.0	88.5 86.1	88.5			
840.0 900.0 960.0 1020.0 1080.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0		980.0 1050.0	0.0	0.0	1120.0	86.1	•			
900.0 960.0 1020.0 1080.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0		1050.0	0.0	•	•	•	1 00.1			
960.0 1020.0 1080.0	0.0	0.0		•		1 0.0 1		. U/. E	1 05 1			
1020.0 1080.0	0.0	0.0	Ĺ	11120.0			11200.0	84.5	85.1			
1080.0	0.0	0.0	•	11100 0		•	1280.0	82.1	82.7 80.6			
		•		1190.0 1260.0	0.0	•	1360.0 1440.0	80.0 75.7	76.7			
1140.0		0.0	•	1330.0	0.0	: :	1520.0	74.0	75.0			
1200.0	0.0	•	•	1400.0	0.0		11600.0	71.0	72.0			
1260.0	0.0	•	•	1470.0	0.0	•	1680.0	67.0	68.0			
1320.0	0.0	•	•	1540.0	0.0		1760.0	67.1	68.1			
1380.0	0.0	•	•	1610.0	0.0		1840.0	61.5	62.7			
1440.0	0.0			1680.0	0.0	•	1920.0	0.0	0.0			
1500.0	0.0			1750.0	0.0		2000.0	0.0	0.0			
1560.0	0.0	•	•	1820.0	0.0		2080.0	0.0	0.0			
1620.0	0.0	•		1890.0	0.0	•	2160.0	0.0	0.0			
1680.0	0.0			1960.0	0.0	: :	2240.0	0.0	0.0			
1740.0	0.0	0.0	•	2030.0	0.0		2320.0	0.0	0.0			
1800.0	0.0	0.0		2100.0	0.0		2400.0	0.0	0.0			
1860.0	0.0			2170.0	0.0	• •	2480.0	0.0	0.0			
1920.0					0.0		•	•	j 0.0			
1980.0												
2040.0						•	•	•	0.0			
2100.0	0.0								0.0			
2160.0	0.0	0.0	П	2520.0	0.0	0.0	2880.0	0.0	0.0			
2220.0			П	2590.0	0.0	0.0	2960.0	0.0	0.0			
38 2280.0 0.0 0.0 2660.0 0.0 0.0 3040.0 0.0 0.0												
39 2340.0 0.0 0.0 2730.0 0.0 0.0 3120.0 0.0												
2340.0	40 2400.0 0.0 0.0 2800.0 0.0 0.0 3200.0 0.0											
2400.0												
2400.0	+											
19 20 21 22 22 22 22	920.0 980.0 940.0 100.0 160.0 220.0 280.0 340.0	920.0 0.0 980.0 0.0 940.0 0.0 100.0 0.0 160.0 0.0 220.0 0.0 280.0 0.0 340.0 0.0	920.0 0.0 0.0 980.0 0.0 0.0 940.0 0.0 0.0 100.0 0.0 0.0 160.0 0.0 0.0 220.0 0.0 0.0 280.0 0.0 0.0 340.0 0.0 0.0						020.0 0.0 0.0 2240.0 0.0 0.0 2560.0 0.0			

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 23.7 DEG)

	+			_	DATA-	POINT /	RUN			+
4	EN	-4 /	160		EN	-5 /	161	EN	-6 /	 162
HN		SPL	SPLA	•	-	SPL	SPLA	F	SPL	SPLA
1	• •	107.3	81.1	1	•	112.2		•	115.3	92.8
	: :	100.8	84.7	1	•	108.3	! !		•	100.1
: .	180.0	94.1	83.2	1	•	103.8	92.9	•	•	103.8
•	240.0	87.4	78.8	Ţ	280.0	99.3	90.7	320.0	•	102.9
5	300.0	77.4	70.8	ļ	350.0	94.3	87.7	400.0	•	104.5
6	360.0	78.5	73.7	ļ	420.0	93.3	88.5	480.0	-	102.8
1 7	420.0	71.4	66.6	1	490.0	87.1	83.9	560.0	102.1	98.9
8	480.0	53.8	50.6	1	560.0	83.6	80.4	640.0	101.6	99.7
	540.0	0.0	0.0	!	630.0	75.9	74.0	720.0	100.4	99.6
	600.0	0.0	0.0	ļ	700.0	75.1	73.2	800.0	97.0	96.2
	660.0	0.0	0.0	ļ	770.0	68.8	68.0	880.0	95.4	94.6
•	720.0	0.0	0.0	ŀ	840.0	63.5	62.7	960.0	93.8	93.8
•	780.0	0.0	0.0	ļ	910.0	0.0		1040.0	91.2	91.2
	840.0	0.0	0.0	!	980.0	0.0		1120.0	87.0	87.0
	900.0	0.0	0.0	•	1050.0	0.0		1200.0	85.8	86.4
16	960.0	0.0	0.0	•	1120.0	0.0		11280.0	84.8	85.4
	1020.0	0.0	0.0	•	1190.0	0.0		11360.0	81.0	81.6
•	11080.0	0.0	0.0	•	1260.0	0.0		11440.0	78.2 74.5	79.2 75.5
- 1	1140.0	0.0	0.0	•	1330.0	0.0		1520.0	74.3 73.8	73.3 74.8
	1200.0 1260.0	0.0 0.0	0.0		1400.0 1470.0	0.0	•	1600.0 1680.0	70.4	74.6 71.4
•	11200.0	0.0	0.0	•	1540.0	0.0	•	1760.0	67.4	68.4
•	1320.0	0.0	0.0		1610.0	0.0		1840.0	62.9	64.1
•	1440.0	0.0	•	•	1680.0	0.0		1920.0	0.0	0.0
•	1500.0	0.0		•	1750.0	0.0		2000.0	0.0	0.0
•	1560.0	0.0			1820.0	0.0	0.0	•	0.0	0.0
	1620.0	0.0	0.0		1890.0	0.0	0.0	•	0.0	0.0
	1680.0	0.0	0.0	•	1960.0	0.0	•	2240.0	0.0	0.0
•	1740.0	0.0	0.0	•	2030.0	0.0		2320.0	0.0	0.0
	1800.0	0.0	0.0	•	2100.0	0.0		2400.0	0.0	0.0
	1860.0	0.0	1	•	2170.0	0.0	, ,	2480.0	0.0	0.0
	1920.0	0.0		•	2240.0		: :	2560.0	0.0	0.0
	1980.0	0.0			2310.0	0.0		2640.0	0.0	0.0
•	2040.0	0.0			2380.0			2720.0	-	j 0.0 j
: :	2100.0	0.0		•	2450.0			2800.0		j 0.0 j
	2160.0	0.0			2520.0		0.0 j	2880.0		: :
	2220.0	0.0		•	2590.0		0.0 j	2960.0	:	: :
	2280.0	0.0			2660.0		0.0	3040.0	0.0	0.0
39 İ	2340.0	0.0	0.0		2730.0	0.0	0.0	3120.0	0.0	0.0
	2400.0							3200.0		
+	++									
+				-				+		
		108.4					98.4		•	111.5
+		+		++	+		 +	+	+	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 23.7 DEG)

	DATA-POINT / RUN												
+	 -	EN	-4 /	160		EN	-5 / +	161	EN	-6 /	162 +		
HN		F	SPL	SPLA		F	SPL	SPLA	F	SPL	SPLA		
1	ij		108.9	82.7	į	•	114.0	87.8	•	118.0	95.5		
•	!!		101.9	85.8	ļ	•	109.6	:	•	113.3	99.9		
] 3	!!	180.0	95.0	84.1	ļ	•	103.7	92.8	240.0	•	104.8		
4	!!	240.0	88.3	79.7	U	:	102.2	93.6	320.0	7	104.2		
5		300.0	78.5	71.9		350.0	96.3	89.7	•	•	103.0		
6		360.0	74.9	70.1	П	420.0	90.5	85.7	•	•	102.0		
!	Н	420.0	73.2	68.4	1	490.0	86.2	83.0	•	•	1100.4		
8 1	11	480.0	71.3	68.1		560.0	79.4	76.2	•	•	100.0		
) 9 10		540.0 600.0	0.0 0.0	0.0 0.0		630.0 700.0	78.8 70.0	76.9 68.1	720.0 800.0	98.0	97.2 95.0		
111		660.0	0.0	•			70.0	: _ :	880.0	93.9	93.0		
	1 I 1 I	720.0	0.0	:			62.4	72.3 61.6	960.0	89.9	89.9		
	Н	780.0	0.0				0.0	•	1040.0	88.9	88.9		
:	H		0.0				0.0		1120.0	86.8	86.8		
	Н	900.0	0.0	•	• •	1050.0	0.0		1200.0	83.4	84.0		
16	Н	960.0	0.0	•	٠.	1120.0	0.0		1280.0	78.7	79.3		
•	Н	1020.0	0.0	•		1190.0	0.0		1360.0	78.3	78.9		
1 18	٠.	1080.0	0.0	•	٠.	1260.0	0.0	:	1440.0	74.5	75.5		
•		1140.0	0.0	•	•	1330.0	0.0	: :	1520.0	72.6	73.6		
•		1200.0	0.0	•	٠.	1400.0	0.0		1600.0	68.4	69.4		
•	: :	1260.0	0.0	•		1470.0	0.0	•	1680.0	61.6	62.6		
•		1320.0	0.0			1540.0	0.0		1760.0	0.0	0.0		
•		1380.0	0.0	•		1610.0	0.0	•	1840.0	0.0	0.0		
•		1440.0	0.0	•		1680.0	0.0		1920.0	0.0	0.0		
•		1500.0	0.0	•		1750.0	0.0		2000.0	0.0	0.0		
-		1560.0	0.0	•		1820.0	0.0		2080.0	0.0	0.0		
•		1620.0	0.0		٠.	1890.0	0.0		2160.0	0.0	0.0		
28	Н	1680.0	0.0	0.0	ÌÌ	1960.0	0.0	0.0	2240.0	0.0	0.0		
29	Ħ	1740.0	0.0	0.0	۱	2030.0	0.0	0.0	2320.0	0.0	0.0		
30	П	1800.0	0.0	0.0	11	2100.0	0.0	0.0	2400.0	0.0	0.0		
31	11	1860.0	0.0	0.0	11	2170.0	0.0		2480.0	0.0	0.0		
32	П	1920.0	0.0	0.0	П	2240.0	0.0		2560.0		0.0		
		1980.0		•		2310.0			2640.0				
34	П	2040.0	0.0	0.0	Н	2380.0	0.0	0.0	2720.0	0.0	0.0		
•		2100.0				2450.0		•	2800.0	-	:		
		2160.0			: :	2520.0			2880.0	•	0.0		
-		2220.0				2590.0			2960.0		:		
		2280.0				2660.0			3040.0				
	• •	2340.0	:						3120.0				
•		2400.0				,			3200.0	•	0.0		
+									+				
•	AC	SPL	109.9	89.8	11		115.9	99.4		121.2	111.4		
+									+	h	·		

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 23.7 DEG)

	-	DATA-POINT / RUN								
+	-+-	 EN	-4 / :	160	EN	-5 / +	161	EN	-6 / +	162 +
HN	İ	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1	į	•	109.9	83.7	• •	115.2	89.0	80.0	120.1	97.6
2	ļ	:	102.7	•	: :	110.5	94.4	160.0	114.1	100.7
3	ļ	:	93.2	82.3	210.0	101.5	90.6	240.0	111.4	102.8
4	ļ	•	83.8	75.2	280.0	100.9	92.3	320.0	113.6	107.0
5	Ţ	300.0	78.6	72.0	350.0	98.0	91.4	400.0	107.7	102.9
6	ļ	360.0	78.4	73.6	420.0	90.6	85.8	480.0	102.1	98.9
7		420.0	56.2	51.4	490.0	82.8	79.6	560.0	102.6	99.4
8	!	480.0	0.0	0.0	560.0	81.4	78.2	640.0	100.1	98.2
9	1	540.0	0.0	0.0	630.0	71.7	69.8	720.0	93.6	92.8
10		600.0	0.0	0.0	700.0	68.4	66.5	800.0	90.4 89.1	89.6
1 11	1	660.0	0.0 0.0	•	770.0 840.0	0.0	0.0 0.0	960.0	88.1	88.3 88.1
1 13	-	720.0 780.0	0.0		840.0	0.0		1040.0	83.9	83.9
1 14	l	840.0	0.0	:	910.0	0.0		1120.0	78.9	03.5 78.9
15	i,		0.0	•	360.0	0.0		1200.0	78.4	79.0
16			0.0	•	11120.0	0.0		1280.0	77.1	77.7 77.7
17		1020.0	0.0		11120.0	0.0		1360.0	70.0	70.6
18		1080.0	0.0	•	1260.0	0.0	,	1440.0	67.9	68.9
1 19		1140.0	0.0	•	1330.0	0.0	:	1520.0	0.0	0.0
20		1200.0	0.0	0.0	1400.0	0.0	. ,	1600.0	0.0	0.0
21		1260.0	0.0	0.0	1470.0	0.0		1680.0	0.0	0.0
22		1320.0	0.0	0.0	1540.0	0.0	•	1760.0	0.0	0.0
1 23	- 1	1380.0	0.0	•	1610.0	0.0		1840.0	0.0	0.0
24		1440.0	0.0		1680.0	0.0	•	1920.0	0.0	i 0.0 i
25	•	1500.0	0.0	•	1750.0	0.0		2000.0	0.0	i 0.0 i
26	•	1560.0	0.0		1820.0	0.0	•	2080.0	0.0	i 0.0 i
j 27		1620.0	0.0		1890.0	0.0	. ,	2160.0	0.0	0.0
28		1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0
29		1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0
30		1800.0	0.0		2100.0	0.0	0.0	2400.0	0.0	0.0
31		1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0
32	1	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0
33		1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0
34	\parallel	2040.0	0.0		2380.0	0.0		2720.0		: :
•		2100.0			2450.0	0.0		2800.0		: :
		2160.0	:		2520.0	0.0	: :	2880.0		: :
•		2220.0	:		2590.0	0.0		2960.0	•	
		2280.0			2660.0	•		3040.0	•	•
•	- : :	2340.0			2730.0	•		3120.0	•	•
		2400.0			2800.0					
					 					
		ASPL					99.2			111.3
					 - 					
,		 -	, · - 7		- 7				'	,

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

M.CROPHONE: MP 6 (PITCH ANGLE: 23.7 DEG)

	DATA DOLLE / DUN								
		DATA-POINT / RUN							
++	į en	-4 /	160	EN	-5 /	161	EN	-6 / +	162 +
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1 1	60.0	109.7	83.5	70.0	115.8	89.6	80.0	120.9	98.4
2	120.0	101.5	85.4	140.0	108.6	92.5	160.0	112.8	99.4
3	180.0	89.5	78.6	210.0	98.3	87.4	240.0	109.7	101.1
4	240.0	80.7	72.1	280.0	97.9	89.3	320.0	109.6	103.0
5	300.0	79.6	73.0	350.0	90.6	84.0	400.0	100.2	95.4
6	360.0	70.4	65.6	420.0	79.9	75.1	480.0	95.3	92.1
7	420.0	63.6	58.8	490.0	74.8	71.6	560.0	97.6	94.4
8	480.0	0.0	0.0	560.0	76.0	72.8	640.0	91.0	89.1
9	540.0	0.0	0.0	630.0	65.0	63.1	720.0	77.0	76.2
10	600.0	0.0	0.0	700.0	59.7	57.8	800.0	86.4	85.6
] 11]	660.0	0.0		770.0	0.0	0.0	880.0	79.8	79.0
12	720.0	0.0		840.0	0.0	0.0	960.0	68.4	68.4
13	780.0	0.0	0.0	910.0	0.0	, ,	11040.0	0.0	0.0
14	840.0	0.0		980.0	0.0	•	1120.0	0.0	0.0
15	900.0	0.0	•	1050.0	0.0		1200.0	0.0	0.0
16	960.0	0.0	•	1120.0	0.0		1280.0	0.0	0.0
: :	1020.0	0.0	•	1190.0	0.0	:	1360.0	0.0	0.0
	1080.0	0.0	•	11260.0	0.0		1440.0	0.0	0.0
•	1140.0	0.0	•	1330.0	0.0	, ,	1520.0	0.0	0.0
	1200.0	0.0		11400.0	0.0	•	11600.0	0.0	0.0
	1260.0	0.0		1470.0	0.0		11680.0	0.0	0.0
	11320.0	0.0	,	1540.0	0.0	•	1760.0	0.0	0.0
	1380.0	0.0		11610.0	0.0	: :	11840.0	0.0	0.0
	11440.0	0.0		11680.0	0.0	•	1920.0 2000.0	0.0	0.0
	1500.0 1560.0	0.0 0.0		1750.0 1820.0	0.0	:	12080.0	0.0	0.0
	1620.0	0.0		1890.0	0.0	• •	2160.0	0.0	0.0
	1680.0	0.0		1960.0	0.0		2240.0	0.0	0.0
	1740.0	0.0		2030.0	0.0		2320.0	0.0	0.0
	1800.0	0.0		2100.0	0.0		2400.0	0.0	0.0
	1860.0	0.0	,	2170.0	0.0		2480.0	0.0	0.0
	1920.0			2240.0	0.0		2560.0	•	•
	1980.0			2310.0	0.0	: :	2640.0	1	
	2040.0			2380.0	0.0	•	2720.0		:
: :	2100.0			2450.0	0.0	: :	2800.0		
	2160.0			2520.0	0.0	: :	2880.0	:	•
	2220.0			2590.0	•		2960.0		: :
•	2280.0			2660.0		: :	3040.0		:
	2340.0			2730.0	-	•	•	•	: :
1 40 1	2400.0	0.0	0.0	12800.0	0.0	0.0	3200.0	0.0	j 0.0 j
++ +				+					
•				+				•	107.6

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 23.7 DEG)

HN F SPL SPLA F SPL 1 60.0 106.9 80.7 70.0 113.8 2 120.0 91.3 75.2 140.0 100.1 3 180.0 81.0 70.1 210.0 88.8 4 240.0 71.4 62.8 280.0 79.6 5 300.0 69.3 62.7 350.0 72.0 6 360.0 0.0 0.0 429.0 76.2 7 420.0 0.0 0.0 490.0 71.2 8 480.0 0.0 0.0 560.0 67.1 9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 770.0 0.0 11 660.0 0.0 0.0 770.0 0.0	87.6	F 80.0 160.0 240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0	SPL 	162 SPLA 93.8 91.4 92.4 86.2 81.2 75.7 71.2 71.0 70.9 70.6
1 60.0 106.9 80.7 70.0 113.8 2 120.0 91.3 75.2 140.0 100.1 3 180.0 81.0 70.1 210.0 88.8 4 240.0 71.4 62.8 280.0 79.6 5 300.0 69.3 62.7 350.0 72.0 6 360.0 0.0 0.0 420.0 76.2 7 420.0 0.0 0.0 490.0 71.2 8 480.0 0.0 0.0 560.0 67.1 9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 770.0 0.0 11 660.0 0.0 0.0 770.0 0.0	87.6	80.0 160.0 240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0	116.3 104.8 101.0 92.8 86.0 78.9 74.4 72.9 71.7 71.4	93.8 91.4 92.4 86.2 81.2 75.7 71.2 71.0 70.9 70.6
2 120.0 91.3 75.2 140.0 100.1 3 180.0 81.0 70.1 210.0 88.8 4 240.0 71.4 62.8 280.0 79.6 5 300.0 69.3 62.7 350.0 72.0 6 360.0 0.0 0.0 420.0 76.2 7 420.0 0.0 0.0 490.0 71.2 8 480.0 0.0 0.0 560.0 67.1 9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 700.0 0.0 11 660.0 0.0 0.0 770.0 0.0	84.0	160.0 240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0	104.8 101.0 92.8 86.0 78.9 74.4 72.9 71.7 71.4	91.4 92.4 86.2 81.2 75.7 71.2 71.0 70.9 70.6
3 180.0 81.0 70.1 210.0 88.8 4 240.0 71.4 62.8 280.0 79.6 5 300.0 69.3 62.7 350.0 72.0 6 360.0 0.0 0.0 420.0 76.2 7 420.0 0.0 0.0 490.0 71.2 8 480.0 0.0 0.0 560.0 67.1 9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 700.0 0.0 11 660.0 0.0 0.0 770.0 0.0	77.9 71.0 65.4 71.4 68.0 63.9 64.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.0 320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0	101.0 92.8 86.0 78.9 74.4 72.9 71.7 71.4	92.4 86.2 81.2 75.7 71.2 71.0 70.9 70.6
4 240.0 71.4 62.8 280.0 79.6 5 300.0 69.3 62.7 350.0 72.0 6 360.0 0.0 0.0 420.0 76.2 7 420.0 0.0 0.0 490.0 71.2 8 480.0 0.0 0.0 560.0 67.1 9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 700.0 0.0 11 660.0 0.0 0.0 770.0 0.0	71.0 65.4 71.4 68.0 63.9 64.2 0.0 0.0 0.0	320.0 400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0	92.8 86.0 78.9 74.4 72.9 71.7 71.4 0.0	86.2 81.2 75.7 71.2 71.0 70.9 70.6
5 300.0 69.3 62.7 350.0 72.0 6 360.0 0.0 0.0 420.0 76.2 7 420.0 0.0 0.0 490.0 71.2 8 480.0 0.0 0.0 560.0 67.1 9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 700.0 0.0 11 660.0 0.0 0.0 770.0 0.0	65.4	400.0 480.0 560.0 640.0 720.0 800.0 880.0 960.0	86.0 78.9 74.4 72.9 71.7 71.4 0.0	81.2 75.7 71.2 71.0 70.9 70.6 0.0
6 360.0 0.0 0.0 420.0 76.2 7 420.0 0.0 0.0 490.0 71.2 8 480.0 0.0 0.0 560.0 67.1 9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 700.0 0.0 11 660.0 0.0 0.0 770.0 0.0	71.4	480.0 560.0 640.0 720.0 800.0 880.0 960.0	78.9 74.4 72.9 71.7 71.4	75.7 71.2 71.0 70.9 70.6 0.0
7 420.0 0.0 0.0 490.0 71.2 8 480.0 0.0 0.0 560.0 67.1 9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 700.0 0.0 11 660.0 0.0 0.0 770.0 0.0	68.0 63.9 64.2 0.0 0.0 0.0 0.0	560.0 640.0 720.0 800.0 880.0 960.0	74.4 72.9 71.7 71.4 0.0	71.2 71.0 70.9 70.6 0.0
8 480.0 0.0 0.0 560.0 67.1 9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 700.0 0.0 11 660.0 0.0 0.0 770.0 0.0	63.9 64.2 0.0 0.0 0.0 0.0	640.0 720.0 800.0 880.0 960.0	72.9 71.7 71.4 0.0	71.0 70.9 70.6 0.0
9 540.0 0.0 0.0 630.0 66.1 10 600.0 0.0 0.0 700.0 0.0 11 660.0 0.0 0.0 770.0 0.0	64.2 0.0 0.0 0.0 0.0	720.0 800.0 880.0 960.0	71.7 71.4 0.0	70.9 70.6 0.0
10 600.0 0.0 0.0 700.0 0.0 11 660.0 0.0 0.0 770.0 0.0	0.0 0.0 0.0 0.0	800.0 880.0 960.0	71.4	70.6 0.0
11 660.0 0.0 0.0 770.0 0.0	0.0 0.0 0.0	880.0 960.0	0.0	0.0
	0.0	960.0	•	: :
12 720.0 0.0 0.0 840.0 0.0	0.0		1 0.0	0.0
12 720.0 0.0 0.0 840.0 0.0 13 780.0 0.0 0.0 910.0 0.0	0.0	1040.0	0.0	0.0
14 840.0 0.0 0.0 980.0 0.0		1120.0		0.0
15 900.0 0.0 0.0 1050.0 0.0		1200.0	0.0	0.0
16 960.0 0.0 0.0 1120.0 0.0		1280.0	0.0	0.0
17 1020.0 0.0 0.0 1190.0 0.0	· : : : : : : : : : : : : : : : : : : :	1360.0	0.0	0.0
18 1080.0 0.0 0.0 1260.0 0.0		1440.0	0.0	0.0
19 1140.0 0.0 0.0 11330.0 0.0		1520.0	0.0	0.0
20 1200.0 0.0 0.0 1400.0 0.0		1600.0	0.0	0.0
21 1260.0 0.0 0.0 1470.0 0.0		1680.0	0.0	0.0
22 1320.0 0.0 0.0 1540.0 0.0		1760.0	0.0	0.0
23 1380.0 0.0 0.0 1610.0 0.0		1840.0	0.0	0.0
24 1440.0 0.0 0.0 1680.0 0.0		1920.0	0.0	0.0
25 1500.0 0.0 0.0 1750.0 0.0		2000.0	0.0	0.0
26 1560.0 0.0 0.0 1820.0 0.0	0.0	2080.0	0.0	0.0
27 1620.0 0.0 0.0 1890.0 0.0	0.0	2160.0	0.0	0.0
28 1680.0 0.0 0.0 1960.0 0.0	0.0	2240.0	0.0	0.0
29 1740.0 0.0 0.0 2030.0 0.0	0.0	2320.0	0.0	0.0
30 1800.0 0.0 0.0 2100.0 0.0		2400.0	0.0	0.0
31 1860.0 0.0 0.0 2170.0 0.0		2480.0	0.0	0.0
32 1920.0 0.0 0.0 2240.0 0.0		2560.0		0.0
33 1980.0 0.0 0.0 2310.0 0.0		2640.0		:
34 2040.0 0.0 0.0 2380.0 0.0		2720.0		
35 2100.0 0.0 0.0 2450.0 0.0		2800.0		0.0
36 2160.0 0.0 0.0 2520.0 0.0		2880.0		0.0
37 2220.0 0.0 0.0 2590.0 0.0				0.0
38 2280.0 0.0 0.0 2660.0 0.0				
39 2340.0 0.0 0.0 2730.0 0.0				
40 2400.0 0.0 0.0 2800.0 0.0				0.0
++				+
OASPL 107.0 82.2 114.0	89.7		116.7	97.9

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 23.7 DEG)

		-	DATA-POINT / RUN									
+		+	l EN	-4 / :	160		EN-	-5 /		EN	-6 /	162
	HN	1	F +	SPL	SPLA		, F +	SPL	SPLA	F	SPL	SPLA
į	1	İ	•	106.9	•	ļ		111.0	84.8	•	1115.1	92.6
- !	2	ļ	120.0		84.1	ļ	:	108.5	92.4	•	1112.5	99.1
- [1		92.7	81.8	1	•	103.7	92.8		•	102.6
!	4		•	86.5	77.9	1	280.0	99.9	91.3	•	•	102.0 101.6
i		1	:	81.9 73.7	75.3 68.9	1	350.0 420.0	93.9 90.9	87.3 86.1	•	•	101.6
-		1	•	0.0	0.0		-	87.4	86.1 84.2	•	101.2	98.0
!	8	:		0.0	0.0	1	560.0	82.6	04.2 79.4		99.3	97.4
1	9		:	0.0	0.0	1		76.3	74.4	:	97.2	96.4
¦	10	l	:	0.0	0.0		700.0	75.6	73.7	:	95.4	94.6
1		i	:	0.0	0.0	i	770.0	73.0	73.7 71.1	880.0	91.7	90.9
i				0.0	0.0	1	840.0	62.3	61.5	960.0	89.7	89.7
i	13		780.0	0.0	0.0	1	910.0	60.1		1040.0	86.9	86.9
i	14	i	840.0	0.0	0.0	i	980.0	0.0	: '	1120.0	84.3	84.3
i	15	i	900.0	0.0	0.0	i	1050.0	0.0		1200.0	81.9	82.5
i	16	i	960.0	0.0	0.0		1120.0	0.0		1280.0	79.0	79.6
i	17	i	1020.0	0.0	0.0	-	1190.0	0.0		1360.0	78.0	78.6
i	18	•	1080.0	0.0	•	•	1260.0	0.0		1440.0	73.3	74.3
i	19	•	1140.0	0.0	•		1330.0	0.0		1520.0	0.0	j 0.0 j
i	20	•	1200.0	0.0	•	•	1400.0	0.0		1600.0	0.0	0.0
i	21		1260.0	0.0	0.0	İ	1470.0	0.0	0.0	1680.0	0.0	0.0
İ	22		1320.0	0.0	0.0	ĺ	1540.0	0.0	0.0	1760.0	0.0	0.0
Ì	23	İ	1380.0	0.0	0.0	1	1610.0	0.0	0.0	1840.0	0.0	0.0
Ì	24		1440.0	0.0	0.0	{	1680.0	0.0	0.0	1920.0	0.0	0.0
1	25		1500.0	0.0	0.0		1750.0	0.0	0.0	2000.0	0.0	0.0
1	26	11	1560.0	0.0	0.0	1	1820.0	0.0	0.0	[2080.0	0.0	0.0
	27		1620.0	0.0	0.0	•	1890.0	0.0		2160.0	0.0	0.0
- [1680.0	0.0	0.0	•	1960.0	0.0		2240.0	0.0	0.0
-			1740.0	0.0			2030.0	0.0		2320.0	0.0	0.0
-			1800.0	0.0		•	2100.0	0.0	•	2400.0	0.0	0.0
1			1860.0	0.0		•	2170.0	0.0		2480.0	0.0	0.0
ļ			1920.0				2240.0			2560.0		: :
ļ			1980.0				2310.0		1	2640.0		: :
!		٠,	2040.0				2380.0			2720.0	•	: :
ļ		: :	2100.0			•	2450.0			2800.0	•	: :
ļ			2160.0			1	2520.0	0.0		2880.0	•	0.0
ļ			2220.0			•	2590.0	0.0		2960.0		0.0
			2280.0				2660.0 2730.0	0.0		3040.0 3120.0		0.0 0.0
1			2340.0	,		•	2730.0 2800.0			3200.0	•	
1			2400.0							3200.0 +		
+										+		
1		0.	ASPL	107.9	88.0	1	· 	113.7	98.2		119.1	109.6
+	- 			+ -	·	+.		·	++	+	+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 23.7 DEG)

	+ 	DATA-POINT / RUN									
+	EN	I-4 /	160 +		EN	-5 / +	161 +		EN	-6 /	162
HN	F	SPL	SPLA		F	SPL	SPLA	ļ	F	SPL	SPLA
1		107.5	•	•	•	111.4	•	•	•	116.8	
•	• •	100.7	84.6	ļ	•	107.1	•	•		111.5	
· .	180.0	1 22.0	80.7	ļ	•	97.3	•	ļ	:	•	101.7
4	240.0	82.3	73.7	ļ	•	101.5	•		•	•	104.2
•	300.0	81.3	74.7	ļ	•	97.2	:		•	103.2	98.4
•	360.0	74.8	70.0	ļ		87.7	•	ļ	1	102.6	99.4
7	1.1	65.7	60.9	ļ	490.0	85.2	82.0	ļ	•	103.2	100.0
8	480.0	0.0	0.0	ļ	560.0	85.6	82.4	l	640.0	•	96.1
9	540.0	0.0	0.0	ļ	630.0	78.1	76.2	ļ	720.0	•	94.0
10	600.0	0.0	0.0	ļ	700.0	75.6	73.7	ļ	800.0	96.1	95.3
11	660.0	0.0	0.0	ļ	770.0	71.1	70.3	ļ	880.0	90.2	89.4
•	720.0	0.0	0.0	ļ	•	0.0	•		•	87.8	87.8
•	780.0	0.0	0.0	ļ		0.0	•	•	1040.0	89.5	89.5
14	840.0	0.0	0.0	ļ		0.0			1120.0	85.7	85.7
•	900.0	0.0	0.0	•	1050.0	0.0	•	•		80.4	81.0
16	960.0	0.0	0.0	•	1120.0	•	•	•	1280.0	•	79.3
17	1020.0	0.0	•	•	1190.0	•	•	•	1360.0 1440.0	•	79.7
18	1080.0	0.0	:	•	1260.0	•	•	•		75.8 65.2	76.8
•	11140.0	0.0	•	•	1330.0	•	•	•	1520.0 1600.0	•	66.2
20	1200.0 1260.0	0.0	0.0	•	1400.0 1470.0	:	•	•	1680.0	•	0.0
21	1200.0	0.0	0.0 0.0	•	1540.0	0.0 0.0	:	:	1760.0	0.0 0.0	0.0
1 23	1320.0	0.0	0.0	•	1610.0	0.0	•	•	1840.0	0.0	0.0 0.0
23	1440.0	0.0	0.0	•	1680.0	0.0	•	•	1920.0	0.0	0.0 [
•	1500.0	0.0	•		1750.0	0.0			2000.0	0.0	0.0
•	11560.0	0.0	•	•	1820.0	0.0			2080.0	0.0	0.0
•	11620.0	0.0	•	•	1890.0	0.0	•	•	2160.0	0.0	0.0
	11680.0	0.0	•	•	1960.0	0.0	•	•	2240.0	•	0.0
•	11740.0	0.0	•		2030.0	0.0	•	-	2320.0	•	0.0
•	1800.0	0.0	•	•	2100.0	0.0	•	•	2400.0	•	0.0
•	1860.0	0.0	•	•	2170.0	0.0			2480.0	0.0	0.0
•	11920.0	0.0	•	•	2240.0	0.0			2560.0	0.0	0.0
	1980.0	0.0			2310.0				2640.0	0.0	0.0
	2040.0	0.0			2380.0				2720.0	•	0.0
•	2100.0	0.0			2450.0	0.0	•		2800.0	0.0	0.0
•	12160.0	0.0	•	•	2520.0		•		2880.0	0.0	0.0
•	2220.0	0.0	•		2590.0		•		2960.0	•	0.0
•	: :	0.0	•		2660.0		•	•	3040.0	•	0.0
•	112340.0	•	•		2730.0	•	•	•	3120.0	•	i o.o i
•	2400.0	•			2800.0				3200.0		i o.o i
÷	++		+ <i></i> -	+	+			-		+	++
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	OASPL										109.5
+		+	+	+-	+	+	+	+-	+	+	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

7. Comments on Data Interpretation

In the preceeding chapters acoustic as-measured data are presented in terms of pressure-time histories and narrow-band spectra for all microphone positions MP 1 to MP 9*.

As stated in the "Executive Report" to this Appendix all data have been analysed regardless of occasional microphone drop-outs or the occurrence of external pressure disturbances which may distort the propeller noise-signature completely.

To avoid erroneous data interpretation, the following list summarizes all those data-points (within the total test-program) which should be deleted with respect to the microphone position indicated:

Microphone Position MP 3:

Delete analyses of Data Points BC-4 BC-5.

Microphone Position MP 6:

Subprogram	Delete analyses of Data Points						
Basic Program	AN-1,2,3,4,5,7; BN-1,2,3,4,5,6,61,7 BC-1,2,3,4,5,6,61,7						
Temperature Effect	HN-3; IN-1,2,3; JN-1,2,3; KN-1,2 HC-1,2; IC-1,2,3;						
Attitude Effect	_						
Installation Effect	FNC-7,8,9,10,11,12						

^{*} MP 8 has only been analysed for data points within the "Attitude-effect" test-program.

In addition, noise data acquired at microphone position MP 7 should be interpreted with care for such data-points which combine low propeller rotational speeds with high tunnel flow-velocities. Respective data are often disturbed due to the effects of microphone vibration. In each of these cases the respective averaged pressure-time history and the corresponding level-spectrum should be inspected carefully. If both data representations do not exhibit any periodic behaviour the respective analysis should not be interpreted.

On top of the averaged pressure-time history plot the number of averages as well as the magnitude of "disturbance-pressure- amplitudes" (which have been detected and deleted within the analysed time-interval) are indicated, the latter by ΔP . In case of completely distorted propeller noise signatures, ΔP generally assumes values of 496% (referenced to the minimum peak-to-peak pressure amplitude within the total number of propeller revolutions analysed). If even higher disturbance amplitudes occur, respective data analyses are marked by $\Delta P >$ *** and should be deleted. Lists of harmonic levels in this case often contain just one level-value for the fundamental frequency (HN=1) which then however has no physical meaning.

Therefore, data interpretation should not be solely based on the listing of harmonic levels. In particular, if only one harmonic level at HN=1 is listed, a careful inspection of the respective level-spectrum (as calculated from the averaged time-history) is necessary to ensure the physical relevance of this harmonic level.

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